WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
MONTANA

UNITED STATES DEPARTMENT of AGRICULTURE···SOIL CONSERVATION SERVICE,
and
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF
APR. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

REPORTS	ISSUED	AGENCY
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

USDA-SCS-PORTLAND, OREG. 1965

WATER SUPPLY OUTLOOK

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

for

MONTANA

Report Prepared

By

Phillip E. Farnes
Snow Survey Supervisor

And

Stanley E. Cook
Assistant Snow Survey Supervisor

Snow Survey and Water Supply Forecasting Branch
Soil Conservation Service
Box 855
Bozeman, Montana

Issued By

A. B. Linford
State Conservationist
Soil Conservation Service
Bozeman, Montana

J. A. Asleson, Director
Montana Agricultural
Experiment Station
Bozeman, Montana

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MONTANA
WATER SUPPLY OUTLOOK
as of
April 1, 1966

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*                                                 *
* Late season shortages of irrigation water can be *
* expected on most tributaries. The mountain snow *
* pack is 65 to 75 percent average over most of   *
* the state.                                      *
*                                                 *
* Low elevation snow is gone and melt is occurring *
* at the higher elevations. Early runoff is ex-   *
* pected and will be 20 to 30 percent below average *
* on all streams except those in the northwest    *
* portion and those originating in the Yellowstone *
* National Park area.                             *
*                                                 *
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Snow surveys made near the first of April indicate the mountain snow pack is about one-half of a year ago and 65 to 75 percent average in all Missouri River drainages except the Sun, Marias and St. Mary areas. This area to the north has about 85 percent snow pack.

West of the Divide, low snow pack encompasses the Bitterroot and Upper Clark Fork drainages. In this area the snow pack is about 70 percent average and 60 to 70 percent of last year. To the north, in the Flathead, Kootenai and Lower Clark Fork drainages, snow cover is about 90 percent average.

Melt began the last week in March and continues at the higher elevations. The low elevation snow pack is almost depleted, with most of the melt saturating the soil.

MONTANA
WATER SUPPLY OUTLOOK
as of
April 1, 1962

* *
*
* Late season subsequent irrigation water can be
* expected on most watersheds. The mountain snow
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*
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* at the higher elevations. Early runoff is ex-
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*
* *

Snow surveys made near the first of April indicate the mountain snow pack is about one-half of a year ago and 65 to 75 percent average in all Missouri River drainages except the Sun, Marias and St. Mary areas. This area to the north has about 85 percent snow pack.

West of the Divide, low snow pack encompasses the Bitterroot and Upper Clark Fork drainages. In this area the snow pack is about 70 percent average and 60 to 70 percent of last year. To the north, in the Flathead, Kootenai and Lower Clark Fork drainages, snow cover is about 90 percent average.

Melt began the last week in March and continues at the higher elevations. The low elevation snow pack is almost depleted, with most of the melt saturating the soil.

Streamflow for the April through September period is forecast to be below average on all streams in the state except the Kootenai. Low flows near those of 1961 are expected in the Bitterroot and Upper Clark Fork drainages. Flathead drainages should produce runoff in the range of 85 to 95 percent average, with higher percentages from the northern tributaries. Inflow along the Clark Fork below the Flathead is forecast about 80 percent average. Late season irrigation water shortages can be expected in the Bitterroot and Upper Clark Fork drainages.

East of the Divide, late season irrigation shortages will occur on almost all of the smaller streams not having reservoir storage. Shortages are also expected on some of the major tributaries to the upper Missouri.

Forecasts range from 90 percent in the Upper Madison and Red Rock drainages to 75 percent average in the lower reaches of the Jefferson, Madison and Gallatin drainages. The low runoff area also encompasses streams tributary to the Missouri originating along the Continental Divide up to the Sun River.

The Sun, Marias, St. Mary and streams originating in the Belt, Castle and Snowy Mountains are expected to produce flows 80 to 90 percent average.

In the Yellowstone drainage about 75 percent average runoff is forecast for streams draining the high Beartooth-Absaroka area.

Headwaters of the Yellowstone, Shields and Clarks Fork should produce about 85 percent average runoff.

Runoff at Billings will be about 75 percent average.

The Big Horn drainage has a severe shortage of snow and forecasts are for runoff near one-half average. Runoff in the Tongue and Powder Rivers is expected to be about the lowest on record. Both rivers probably will be dry or nearly dry after the main snow melt period.

Reservoir storage is generally above average and runoff in many areas should be adequate to obtain necessary storage. Multipurpose and power generated reservoirs should fill with spring runoff.

Soils are saturated at mid and low elevations from recent snow melt. Higher elevation soils show some increase in moisture content while valley soils are drying.

Streamflow for the April through September period is forecast to be below average on all streams in the state except the Roybeard. Low flows over those of 1961 are expected in the Bitterroot and Upper Clark Fork drainages. Flathead drainages should produce runoff in the range of 85 to 95 percent average, with higher percentages from the northern tributaries. Below along the Clark Fork below the Flathead is forecast about 80 percent average. Late season irrigation water shortages may be expected in the Bitterroot and Upper Clark Fork drainages.

East of the Divide, late season irrigation shortages will occur on almost all of the smaller streams not having reservoir storage. Shortages are also expected on some of the major tributaries to the upper Missouri.

Forecasts range from 90 percent in the Upper Madison, and Red Rock drainages to 75 percent average in the lower reaches of the Jefferson, Madison and Gallatin drainages. The low runoff area also encompasses extreme southwestern to the Missouri originating along the Continental Divide up to the Sun River.

The Sun, Marias, St. Mary and Milk streams originating in the Rocky Cascade and Sweet Grass Mountains are expected to produce flows 80 to 90 percent average.

In the Yellowstone drainage about 75 percent average runoff is forecast for streams draining the High Beartooth-Absaroka area.

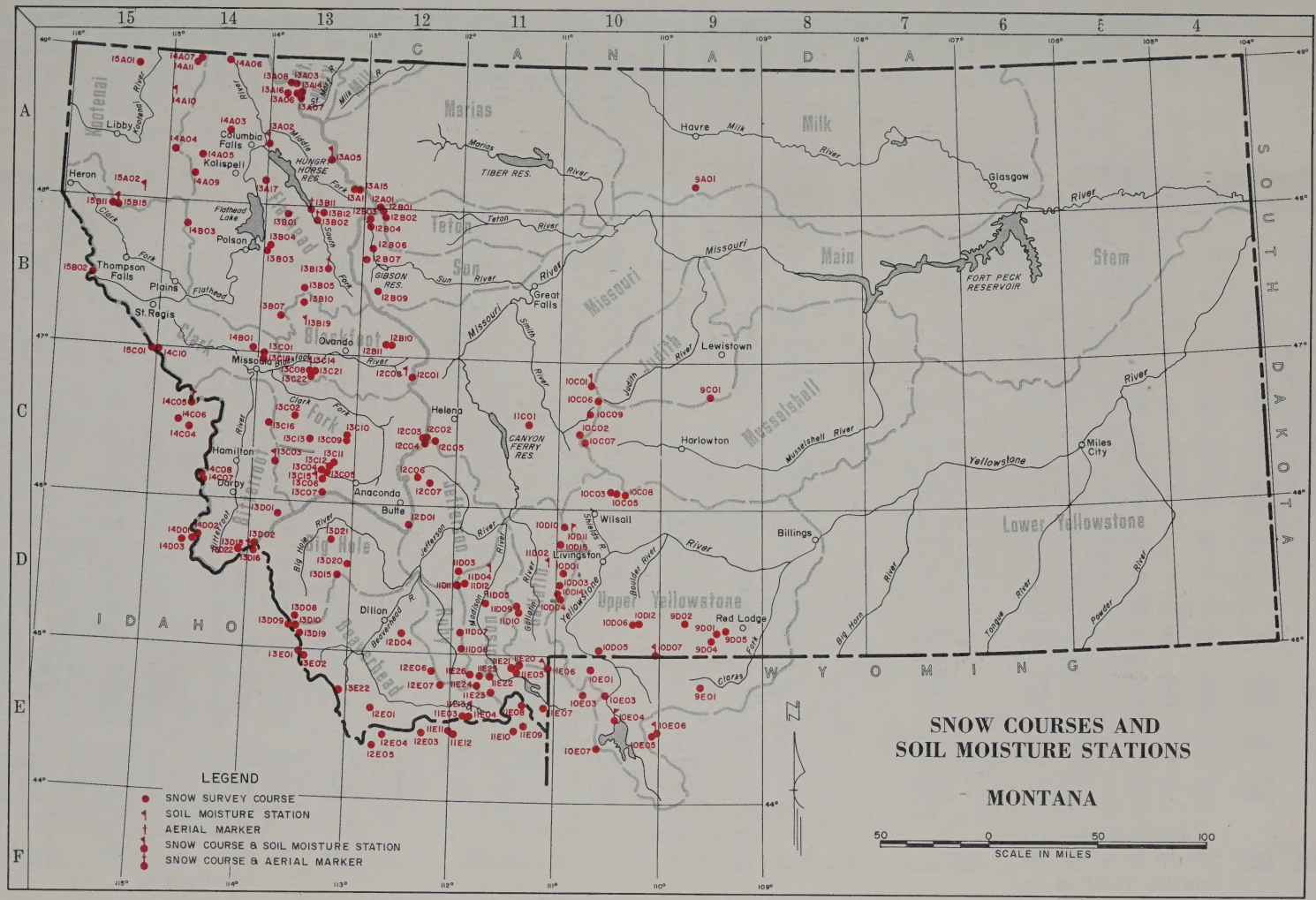
Drainages of the Yellowstone, Cheyenne and Tongue have about 65 percent average runoff.

Runoff at Billings will be about 75 percent average.

The Big Horn drainage has a severe shortage of snow and forecasts are for runoff near one-half average. Runoff in the Tongue and Powder Rivers is expected to be about the lowest on record. Bear River probably will be dry or nearly dry after the main snow melt period.

Reservoir storage is generally above average and runoff in many areas should be adequate to obtain necessary storage. Multipurpose and power generated reservoirs should fill with average runoff.

Soils are saturated at mid and low elevations from recent snow melt. Higher elevation soils show some increase in moisture content while valley soils are drying.



U. S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE
SCS-SNOW-MONTANA, 1955, 1956 M-4473

INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

SNOW COURSES

COLUMBIA RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
KOOTENAI RIVER								
Baree Creek	15B11	5500	36	26N	31W	1956	3,4,5,5½	2
Baree Trail	15B15	3800	5	25N	30W	1965	3,4,5,5½	2
Brush Creek	14A04	5000	12	30N	26W	1937	3,4,5	1,2
Graves Creek	14A11	4300	1	36N	25W	1965	3,4,5,5½,6	1,2
Red Mountain	15A01	6000	4	36N	29W	1937	3,4,5,5½,6	1,2
Weasel Divide	14A07	5450	20	37N	24W	1937	3,4,5,5½,6	1,2
FLATHEAD RIVER								
Bassoo Peak	14B03	5150	11	24N	25W	1961	3,4,5	1,5
Beaver Lake	13A11	5900	31	28N	11W	1964	3,4,5	1
Big Creek	13B03	6750	7	22N	18W	1941	3,4,5, 6	1,5
Camp Misery	13A17	6400	30	28N	18W	1962	3,4,5	1,2
Desert Mountain	13A02	5600	24	31N	19W	1937	1,2,3,4,5, 6	1,2
Fatty Creek	13B04	5500	8	22N	18W	1962	3,4,5, 6	1,5
Griffin Creek Divide	14A09	5150	11	28N	25W	1960	3,4,5	1,5
Gunsight Lake	13B12	6300	35	26N	12W	1964	3,4,5	1
Hell Roaring Divide	14A03	5770	35	32N	22W	1942	1,2,3,4,5,5½,6	2
Holbrook	13B13	4530	18	21N	13W	1951	1,2,3,4,5	1
Kishenehn	14A06	3890	14	37N	22W	1954	3,4	6
Logan Creek	14A05	4300	34	30N	24W	1937	3,4,5	1,2
Marias Pass	13A05	5250	34	30N	14W	1934	1,2,3,4,5	3
Mineral Creek	13A16	4000	29	35N	17W	1957	3,4,5	6
North Fork Jocko	13B07	6330	3	17N	17W	1941	3,4,5,5½,6	1,5
Spotted Bear Mountain	13B02	7000	23	29N	15W	1948	1,2,3,4,5	1,2
Trinkus Lake	13B01	6100	9	25N	17W	1948	3,4,5	1
Twin Creeks	13B11	3580	24	26N	16W	1951	1,2,3,4,5	1,2
Upper Holland Lake	13B05	7000	28	20N	15W	1948	3,4,5	1
CLARK FORK RIVER								
Black Pine	13C13	7100	26	8N	15W	1959	3,4,5,5½,6	1,2
Copper Creek	12B10	5700	1	15N	9W	1962	3,4,5	1,2
Cotter Mine	12B11	6250	2	15N	9W	1962	3,4,5	1,2
Coyote Hill	13B10	4200	12	18N	16W	1947	1,2,3,4,5	1,2
El Dorado Mine	13C09	7800	23	8N	12W	1949	3,4	1
Fred Burr Pass	13C11	8000	12	6N	13W	1957	3,4,5	1
Gold Creek Lake	13C10	7200	14	8N	12W	1949	3,4	1
Hearts Lake Trail	14C10	4800	11	14N	27W	1965	3,4,5	1,2
Hoodoo Creek	15C01	5900	16	14N	27W	1937	3,4,5	1,2
Intersgaard	13C04	6450	6	5N	13W	1936	2,3,4,5	4
Lubrecht Forest No. 3	13C21	5450	19	13N	14W	1951	1,2,3,4,5	8
Lubrecht Forest No. 4	13C22	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 6	13C08	4040	11	13N	15W	1951	1,2,3,4,5	8
Red Lion	13C12	7100	22	6N	13W	1958	3,4,5	1
Skalkaho Summit	13C03	7260	30	6N	17W	1937	3,4,5,5½,6	1
Slide Rock Mountain	13C02	7100	35	10N	16W	1937	3,4,5	1
Southern Cross	13C05	6500	8	5N	13W	1936	2,3,4	4
Spring Gulch	13C18	6000	12	14N	19W	1961	1,2,3,4,5	8
Storm Lake	13C07	7780	19	4N	13W	1939	1,2,3,4,5	1
Stuart Mill	13C06	6500	19	5N	13W	1936	2,3,4	4
Stuart Mountain	13C01	7400	6	14N	18W	1936	1,2,3,4,5,5½,6	8
TV Mountain	14B01	6800	33	15N	19W	1956	1,2,3,4,5,5½,6	8
BITTERROOT RIVER								
Ambrose	13C16	6480	28	9N	18W	1960	3,4,5	1
East Fork R. S.	13D01	5400	16	2N	17W	1937	3,4	1
Gibbons Pass	13D02	7100	4	2S	19W	1934	1,2,3,4,5,5½,6	1,3
Lost Horse	14C07	5940	5	4N	23W	1960	3,4,5,5½,6	1
Nez Perce Camp	14D02	5680	19	1S	23W	1937	3,4,5	1
Nez Perce Pass	14D01	6570	25	1S	24W	1937	3,4,5	1
Saddle Mountain	13D22	7940	5	2S	19W	1965	3,4,5,5½,6	1
Twin Lakes	14C08	6510	32	5N	23W	1960	3,4,5,5½,6	1
ST. MARY RIVER BASIN								
Iceberg Lake No. 3	13A03	5600	1	35N	17W	1922	5	3,9
Josephine Lower No. 9	13A14	4900	22	35N	16W	1955	5	3,9
Mount Allen No. 7	13A07	5700	27	35N	16W	1922	5	3,9
Piegan Pass No. 6	13A06	5500	27	35N	16W	1922	5	3,9
Ptarmigan No. 8	13A08	5800	36	36N	17W	1937	5	3,9

MISSOURI RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
BEAVERHEAD RIVER								
Bloody Dick	13D10	7600	12	8S	16W	1948	3,4,5	1
Cartar Creek	12D04	7400	22	8S	7W	1963	2,3,4	1
Dad Creek Lake	13E22	8400	24	12S	13W	1965	3,4,5	1
Elkhorn Springs	13D15	7800	21	4S	12W	1935	3,4,5	3
Gold Stone	13D09	8100	11	8S	16W	1948	3,4,5	1
Lakeview Canyon	11E04	6930	26	14S	2W	1948	3,4,5	10
Lakeview Ridge	11E03	7600	27	14S	2W	1948	3,4,5	10
Lemhi Pass	13E01	7480	9	10S	15W	1948	3,4	1
Trail Creek	13E02	7090	15	10S	15W	1948	3,4	1
White Pine Ridge	12E01	8850	18	14S	9W	1948	3,4,5	1
RUBY RIVER								
Clover Meadow	11D08	8600	28	9S	2W	1963	3,4,5	1
Divide	12E07	7900	14	12S	4W	1963	3,4,5	1
Notch	12E06	8500	18	11S	4W	1963	3,4,5	1
BIG HOLE RIVER								
Abundance Lake	13D20	8800	7	3S	11W	1963	3,4,5	1
Darkhorse Lake	13D19	8600	4	8S	16W	1963	3,4,5	1
Foolhen	13D21	8280	11	1S	13W	1963	3,4,5	1
Jahnke Creek	13D08	7340	25	7S	16W	1948	3,4,5	1
JEFFERSON RIVER								
Berry Meadow	12D07	7300	8	5N	5W	1962	3,4,5	1
Picnic Grounds	12D06	6500	10	5N	6W	1941	2,3,4	4
Pipestone Pass	12D01	7200	10	1N	7W	1938	1,2,3,4,5	1
MADISON RIVER								
Call Road	11D07	8050	21	8S	2W	1962	3,4,5	1
Four Mile	11D12	6900	6	4S	2W	1965	3,4,5	1
Freezeout Lake	11E25	7200	6	12S	1E	1965	3,4,5,5½,6	2
Freezeout Mountain	11E26	8250	26	11S	1W	1965	3,4,5,5½,6	2
Hebgen Dam	11E05	6550	22	11S	3E	1934	1,2,3,4,5	3
Jack Creek	11D05	7500	13	6S	1E	1961	3,4	1
Lake Creek	11E22	6100	27	11S	1E	1965	3,4,5,5½,6	2
Lower Twin	11D11	7900	12	4S	3W	1965	3,4,5	1
Meridian Creek	11E23	7000	31	12S	1E	1965	3,4,5,5½,6	2
North Meadow	11D03	7500	24	3S	3W	1961	3,4,5	1
Potomageton Park	11E21	7150	33	10S	3E	1965	3,4,5	2
Sentinel Creek	11E20	8300	17	10S	3E	1965	3,4,5	2
Teepee Creek	11E24	8000	15	12S	1W	1965	3,4,5,5½,6	2
West Yellowstone	11E07	6700	34	13S	5E	1934	1,2,3,4,5	3
GALLATIN RIVER								
Arch Falls	10D14	7350	3	5S	6E	1963	2,3,4,5,5½,6	1
Bear Basin	11D09	8150	9	6S	3E	1963	3,4,5,6	1
Bridger Bowl	10D15	7250	25	1N	6E	1965	1,2,3,4,5½,6	1
Devil's Slide	10D04	8100	14	5S	6E	1935	2,3,4,5,5½,6	1
Hood Meadow	10D03	6600	22	4S	6E	1935	2,3,4,5,5½,6	1
Little Park	11D10	7400	22	6S	3E	1963	3,4,5	1
New World	10D01	6700	24	3S	6E	1939	2,3,4	1
Twenty-One Mile	11E06	7150	1	11S	5E	1934	1,2,3,4,5	3
MISSOURI RIVER MAIN STEM								
Boulder Mountain	11D01	7950	1	9N	3E	1963	3,4,5	1
Chessman Reservoir	12D05	6200	2	8N	5W	1936	1,2,3,4,5	3
Deadman Creek	10D09	6450	23	12N	8E	1966	3,4,5,5½,6	1
Elk Peak	10C07	8000	10	8N	8E	1963	3,4,5	1
Grasshopper	10C02	7000	19	9N	8E	1938	3,4,5	1
Kings Hill	10C01	7500	34	13N	8E	1934	3,4,5,5½,6	1,3
Rocky Boy	9A01	5200	15	28N	16E	1941	3,4	7
Stemple Pass	12C01	6600	16	13N	7W	1934	3,4,5	3
Ten Mile Lower	12C02	6600	12	8N	6W	1935	1,2,3,4,5	3
Ten Mile Middle	12C03	6800	13	8N	6W	1934	1,2,3,4,5	3
Ten Mile Upper	12C04	8000	19	8N	5W	1935	1,2,3,4,5	3
SUN-TETON-MARIAS RIVERS								
Badger Pass	13A15	6900	4	27N	11W	1964	3,4,5	1
Cabin Creek	12B06	5200	33	23N	10W	1949	3,4,5	1
Five-Bull	12B09	5700	25	20N	10W	1948	3,4,5	1
Freight Creek	12A01	6000	13	26N	10W	1948	3,4,5	1
Goat Mountain	12B07	7000	20	22N	10W	1934	3,4,5	3
Waldron Creek	12B02	5300	16	25N	9W	1948	3,4,5	1
West Fork	12B01	6000	6	25N	9W	1948	3,4,5	1
Wrong Creek	12B04	5700	32	25N	10W	1949	3,4,5	1
Wrong Ridge	12B03	6800	17	25N	10W	1949	3,4,5	1
JUDITH RIVER								
Crystal Lake	9C01	6100	19	12N	18E	1941	3,4	1
Spur Park	10C06	8000	20	12N	9E	1963	3,4,5,5½,6	1
UPPER YELLOWSTONE RIVER								
Bald Ridge	10C05	7500	11	4N	10E	1961	3,4,5	1
Camp Davis	9D01	7890	2	8S	18E	1937	3,4,5,5½,6	1
Crevice Mountain	10D05	8400	22	9S	9E	1935	3,4	2
Grizzly Peak	9D05	8400	26	7S	19E	1961	1,2,3,4,5	1
Independence	10D06	8000	22	7S	12E	1940	3,4,5	1
Monument Peak	10D12	9000	22	7S	12E	1961	3,4,5	1
Northeast Entrance	10D07	7400	33	9S	14E	1937	1,2,3,4,5	6
Porcupine R. S.	10C03	6500	10	4N	10E	1938	3,4,5	1
Sacajawea	10D10	6550	36	2N	6E	1960	3,4,5	1
South Fork Shields	10C08	8100	13	4N	10E	1965	3,4,5	1
Timberline Creek	9D04	8850	10	8S	18E	1961	3,4,5	1
West Rosebud	9D02	7500	9	7S	16E	1960	3,4	4

SOIL MOISTURE STATIONS

COLUMBIA RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
KOOTENAI RIVER								
Baree Trail	15B15M	3800	5	25N	30W	1964	Monthly	2
Murphy Lake R. S.	14A10M	3000	5	34N	25W	1964	Monthly	2
Raven R. S.	15A02M	3050	2	26N	29W	1964	Monthly	2
FLATHEAD RIVER								
Desert Mountain	13A02M	5600	24	31N	19W	1956	Monthly	1
Marias Pass	13A05M	5250	34	30N	14W	1950	Monthly	1
CLARK FORK RIVER								
Georgetown Lake	13C15M	6450	6	5N	13W	1962	Monthly	1
Lubrecht Forest	13C14M	4100	11	13N	15W	1961	Monthly	8
Seeley Lake	13B19M	4030	21	17N	15W	1963	Monthly	2
Skalkaho Summit	13C03M	7260	30	6N	17W	1964	Monthly	1
BITTERROOT RIVER								
Gibbons Pass	13D18M	7100	4	2S	19W	1962	Monthly	1
Lolo Pass	14C05M	5250	11	10N	24W	1963	Monthly	1

MISSOURI RIVER BASIN

Drainage Basin & Course Name	Number	Elev.	Sec.	Twp.	Range	Record Began	Measuring Dates 1/	Meas. By 2/
BEAVERHEAD RIVER								
Lakeview	11E13M	6700	23	14S	2W	1962	Monthly	10
MADISON RIVER								
Red Bluff	11D04M	4800	7	3S	1E	1961	Monthly	7
GALLATIN RIVER								
Bridger Bowl	10D15M	7250	25	1N	6E	1965	Monthly	1
College Site	11D02M	4856	18	2S	5E	1956	Monthly	1
Twenty-One Mile	11E06M	7150	1	11S	5E	1963	Monthly	6
MISSOURI RIVER MAIN STEM								
Kings Hill	10C01M	7420	34	13N	8E	1963	Monthly	1
Stemple Pass	12C08M	6350	16	13N	7W	1963	Monthly	1
YELLOWSTONE RIVER								
Battle Ridge	10D11M	6020	32	2N	7E	1960	Monthly	1
Northeast Entrance	10D07M	7350	33	9S	14E	1962	Monthly	6

LEGEND

1/ Numerals 1,2,3,4,5,5½,6 refer to January 1, February 1, March 1, April 1, May 1, May 15 and June 1.

2/ Numerals refer to Agency that secures the snow survey as follows:

1. U. S. Soil Conservation Service
2. U. S. Forest Service
3. U. S. Geological Survey
4. Montana Power Company
5. U. S. Indian Service
6. U. S. National Park Service
7. MSU Agricultural Experiment Station
8. U. of M. School of Forestry
9. Dominion Water & Power Bureau
10. U. S. Bureau of Sport Fisheries & Wildlife

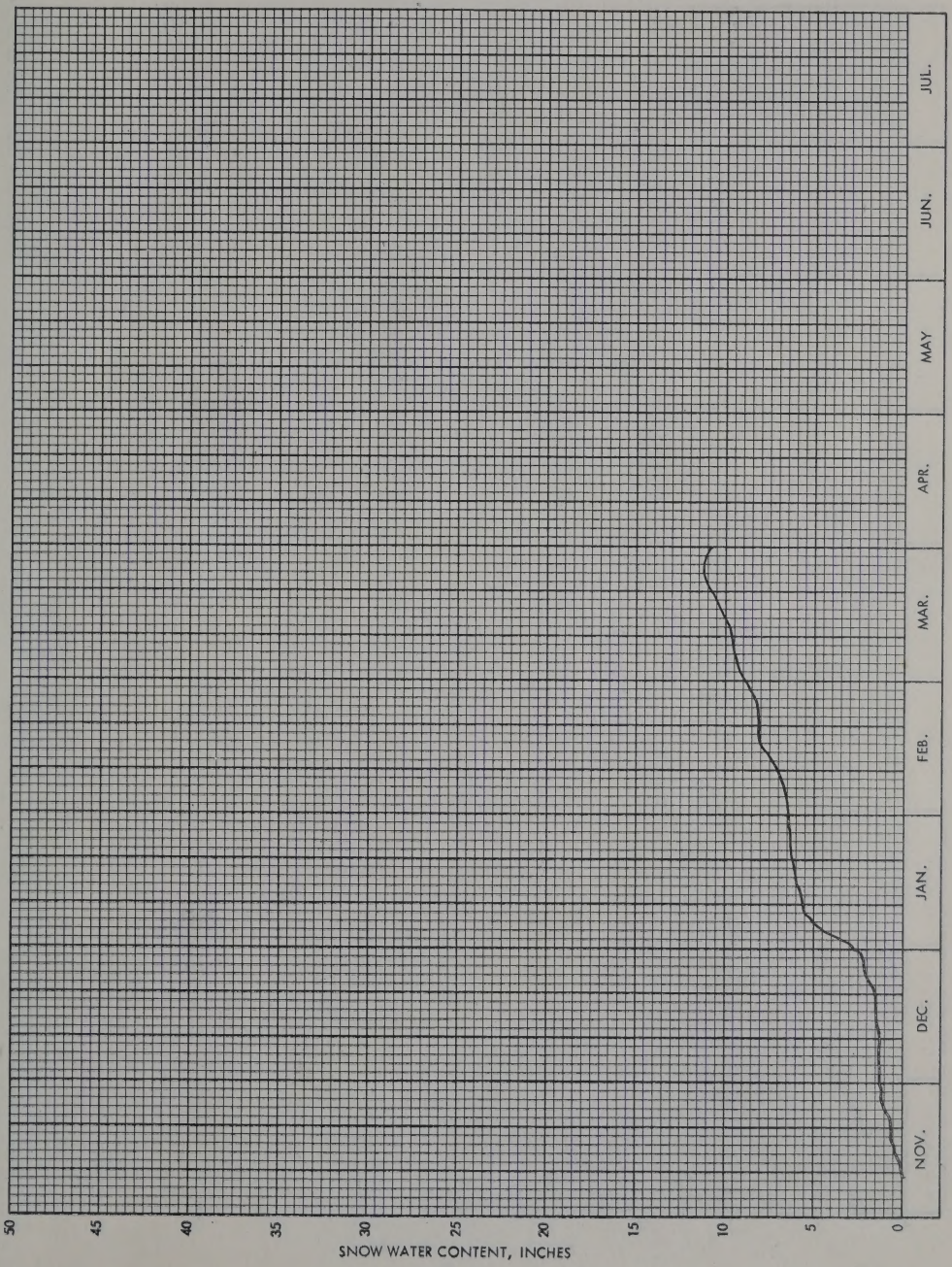
M - Soil Moisture

BLACK PINE
SNOW PILLOW DATA

AS OF APRIL 1, 1966

Sec. 26 T. 8N R. 15W No. 13C13 Drainage: Columbia

Lat. 46-25 Long. 113-26 Elev. 7100 Clark Fork

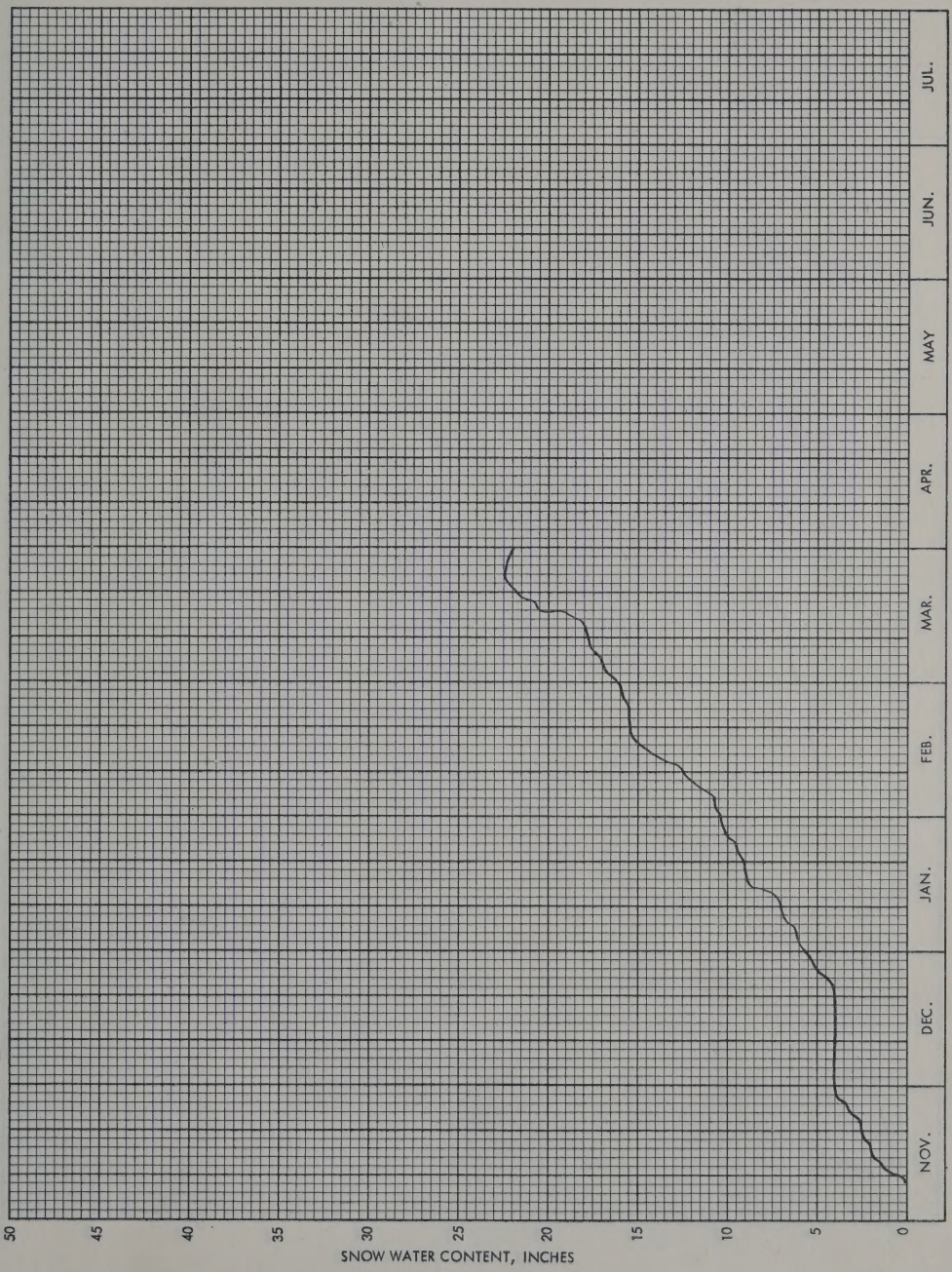


BRIDGER BOWL
SNOW PILLOW DATA

AS OF APRIL 1, 1966

Sec. 25 T. 1N R. 6E No. 10D15 Drainage: Missouri

Lat. 45-48 Long. 110-55 Elev. 7250 Gallatin

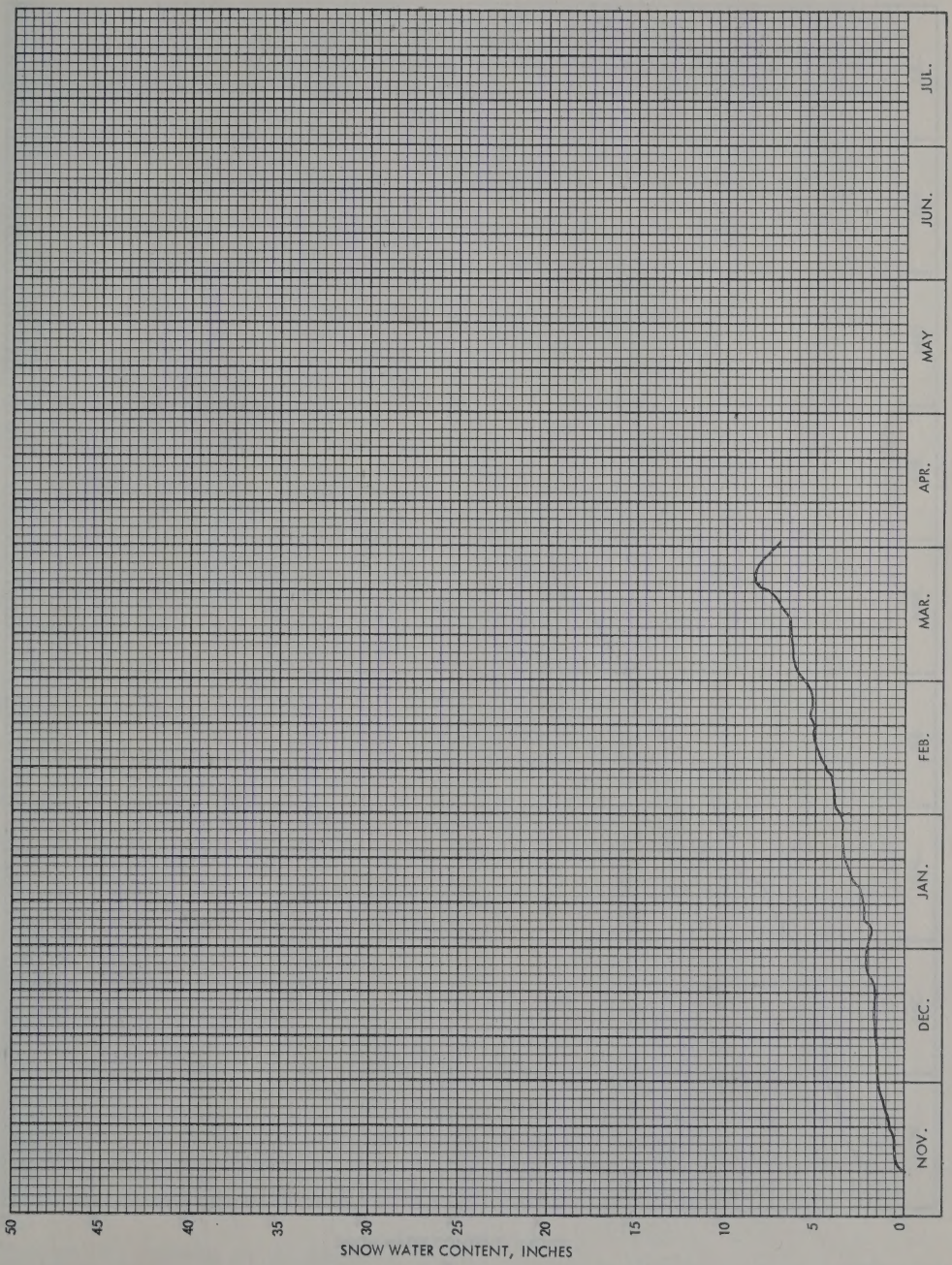


LICK CREEK
SNOW PILLOW DATA

AS OF APRIL 1, 1966

Sec. 10 T. 6E R. 6E No. 10D13 Drainage: Missouri

Lat. 45-30 Long. 110-58 Elev. 6860 Gallatin

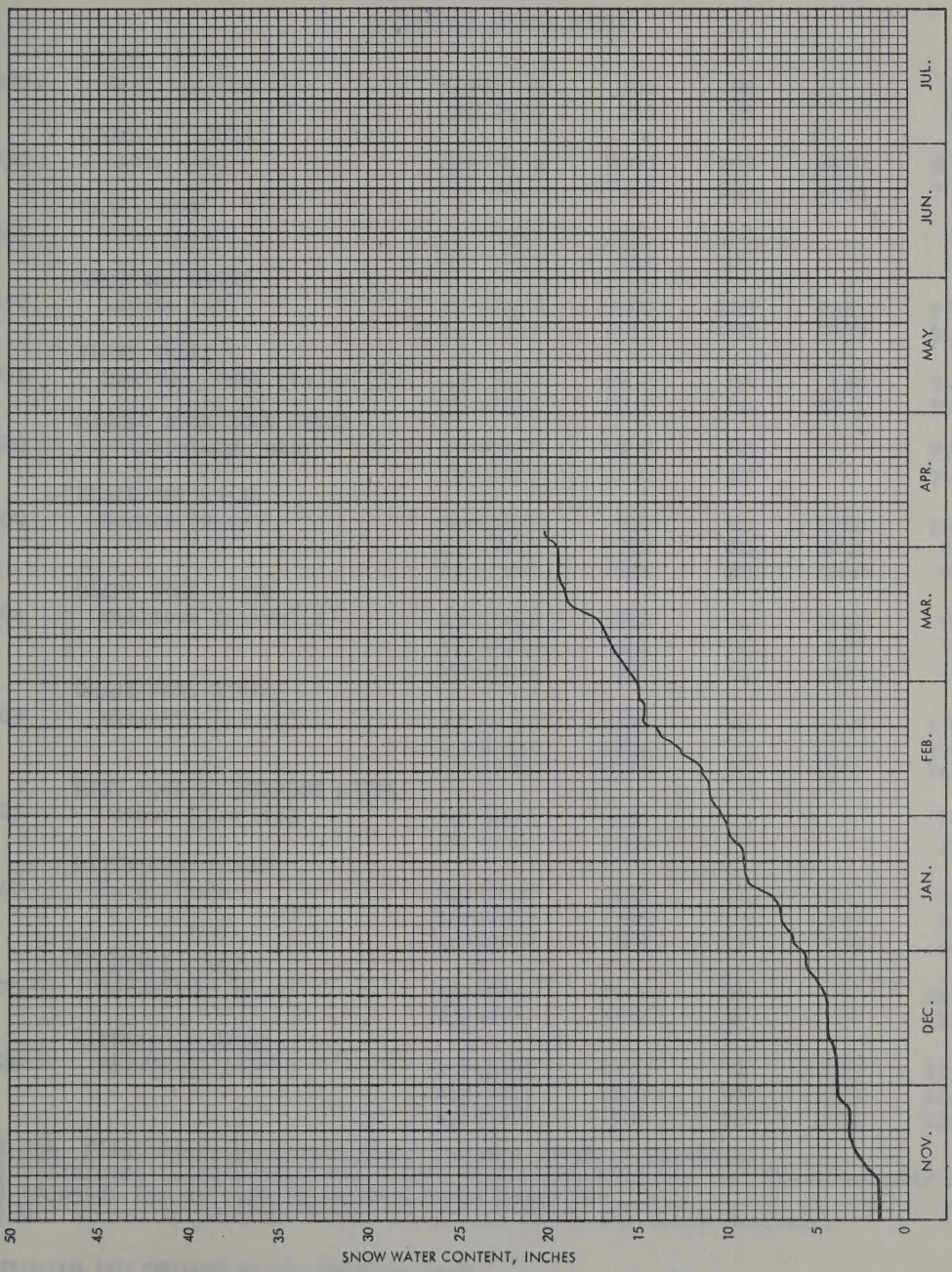


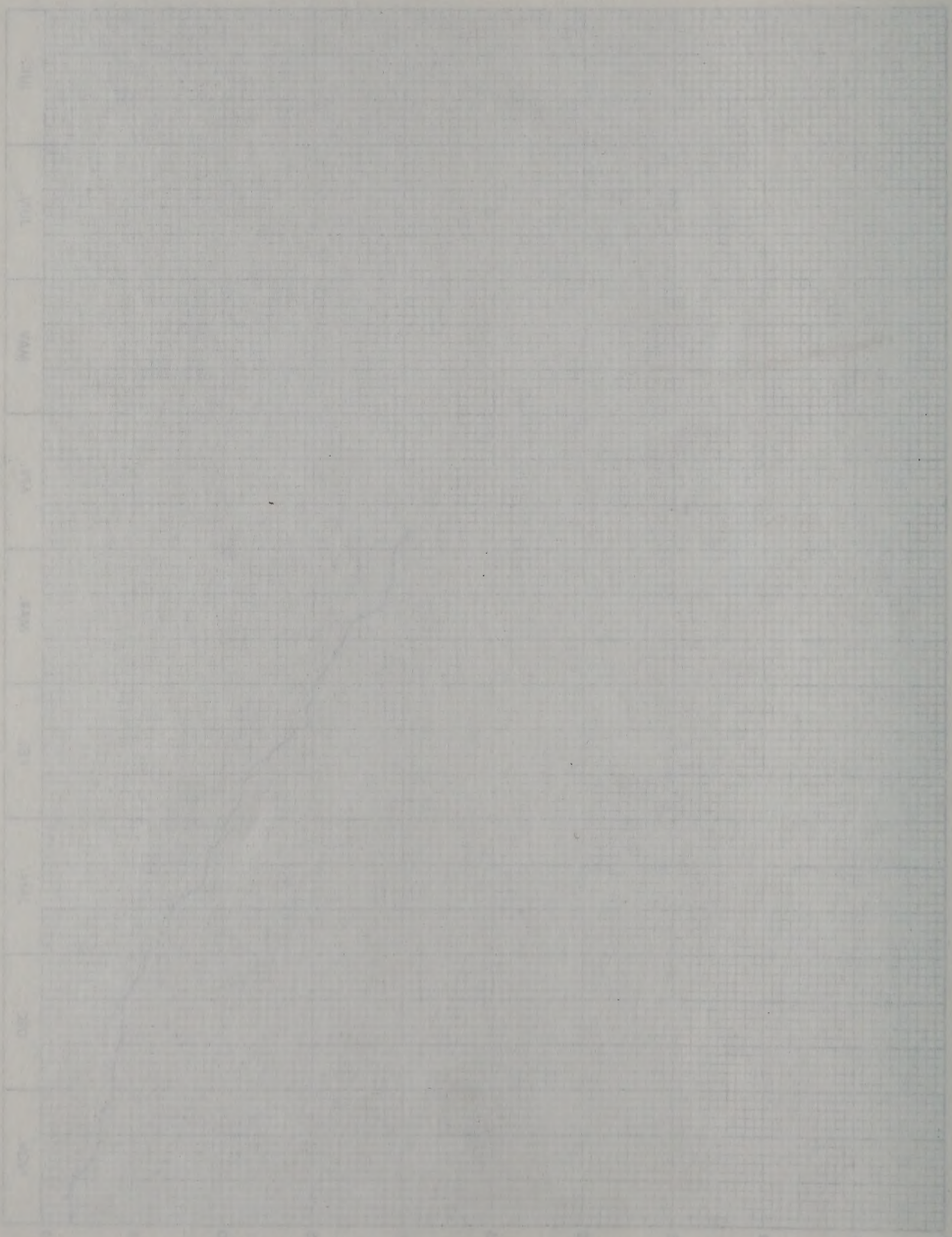
SHOWER FALLS
SNOW PILLOW DATA

AS OF APRIL 1, 1966

Sec. 14 T. 5S R. 6E No. 10D16 Drainage: Missouri

Lat. 45-24 Long. 110-57 Elev. 8100 Gallatin





WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	COLUMBIA RIVER BASIN					
	FISHER RIVER					
3020	Jennings (near)	Apr-Sept	305	96		318
		Apr-July	290	96		302
	KOOTENAI RIVER					
3030	Libby (at)	Apr-Sept	8300	103	8040	8096
		Apr-July	7240	103	6894	7010
	YAAK RIVER					
3045	Troy (near)	Apr-Sept	555	100		555
		Apr-July	531	100		532
	KOOTENAI RIVER					
3050	Leonia (at)	Apr-Sept	9500	102	9131	9327
		Apr-July	8350	102	7937	8179
	FLINT CREEK					
3301	Boulder Creek (below)(3)	Apr-Sept	48.0	66	110	73.0
		Apr-July	38.9	66	87.1	59.1
	MIDDLE FORK ROCK CREEK					
3320	Philipsburg (near)	Apr-Sept	53.0	68		77.8
		Apr-July	48.0	68		70.5
	BLACKFOOT RIVER					
3400	Bonner (near)	Apr-Sept	830	80	1368	1036
		Apr-July	750	80	1233	938
		Apr-June	648	80	1068	812
	CLARK FORK RIVER					
3404	Milltown (above)(4)	Apr-Sept	510	64	1149	802
		Apr-July	444	64	977	705
		Apr-June	385	64	830	605
	CLARK FORK RIVER					
3405	Missoula (above)	Apr-Sept	1340	73	2517	1838
		Apr-July	1194	73	2210	1642
		Apr-June	1033	73	1898	1417
	WEST FORK BITTERROOT RIVER					
3425	Conner (near)(5)	Apr-Sept	132	74		179
		Apr-July	124	74		168
	BITTERROOT RIVER					
3440	Darby (near)	Apr-Sept	425	73	740	582
		Apr-July	396	73	676	542
		Apr-June	348	73	593	478
	BLODGETT CREEK					
3475	Corvallis (near)	Apr-Sept	35.5	80		44.6
		Apr-July	33.9	80		42.6
	BITTERROOT RIVER					
3528	Missoula (at)(6)	Apr-Sept	1120	72	1983	1553
		Apr-July	1040	72	1755	1446
		Apr-June	905	72	1505	1253

(3) Sum, Flint Creek at Maxville and Boulder Creek at Maxville.
(4) Difference in observed flow, Clark Fork above Missoula and Blackfoot near Bonner.
(5) Adjusted for storage in Painted Rocks Reservoir.
(6) Difference in observed flow, Clark Fork above and below Missoula.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1966 Acre Feet)

No.	River and Forecast Point	Forecast Period	Forecast Flow	Average	Measured Flow Last Year*	Average
	COLUMBIA RIVER BASIN					
	FLATHEAD RIVER					
3020	Hungry Horse (inflow)	Apr-Sept	305	95		312
		Apr-July	290	95		302
	KOOTENAI RIVER					
3030	Libby (at)	Apr-Sept	8300	103	5010	8096
		Apr-July	7240	103	6894	7010
	IAKE RIVER					
3045	Troy (near)	Apr-Sept	545	100		555
		Apr-July	531	100		532
	KOOTENAI RIVER					
3050	Bonners Ferry (at)	Apr-Sept	9500	102	9123	9327
		Apr-July	8310	102	7937	8179
	PEND OREILLE RIVER					
3201	Newport (below)(3)	Apr-Sept	424.0	65	110	734.0
		Apr-July	384.9	65	87.1	592.1
	MIDDLE FORK ROCK CREEK					
3320	Philipsburg (near)	Apr-Sept	53.0	68		77.8
		Apr-July	48.0	68		70.5
	BLACKFOOT RIVER					
3400	Ponder (near)	Apr-Sept	830	80	1360	1036
		Apr-July	770	80	1213	958
		Apr-June	668	80	1068	812
	CLARK FORK RIVER					
3404	Milltown (above)(4)	Apr-Sept	510	64	1149	802
		Apr-July	444	64	977	705
		Apr-June	365	64	830	605
	CLARK FORK RIVER					
3405	Missoula (above)	Apr-Sept	1320	73	2017	1838
		Apr-July	1204	73	2210	1642
		Apr-June	1035	73	1958	1417
	WEST FORK BITTERROOT RIVER					
3425	Conner (near)(5)	Apr-Sept	132	74		179
		Apr-July	124	74		168
	BITTERROOT RIVER					
3440	Darby (near)	Apr-Sept	425	72	740	592
		Apr-July	394	72	636	542
		Apr-June	348	72	593	478
	BOULDER CREEK					
3475	Cornwallis (near)	Apr-Sept	35.5	80		44.6
		Apr-July	32.9	80		42.6
	BITTERROOT RIVER					
3525	Missoula (at)(6)	Apr-Sept	1180	72	1983	1593
		Apr-July	1040	72	1795	1440
		Apr-June	901	72	1505	1253

(3) Sum, Flint Creek at Maxville and Boulder Creek at Maxville.
(4) Difference in observed flow, Clark Fork above Missoula and Blackfoot near Bonner.
(5) Adjusted for storage in Painted Rocks Reservoir.
(6) Difference in observed flow, Clark Fork above and below Missoula.

*Provisional data furnished by U.S. Geological Survey

NOTE: All forecasts based on 1956-1965 (15 year Mean-Cor).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	CLARK FORK RIVER					
3530	Missoula (below)	Apr-Sept	2460	73	4500	3391
		Apr-July	2250	73	3965	3088
		Apr-June	1938	73	3403	2670
	CLARK FORK RIVER					
3545	St. Regis (at)	Apr-Sept	3500	75	6007	4642
		Apr-July	3180	75	5329	4230
		Apr-June	2750	75	4611	3671
	NORTH FORK FLATHEAD RIVER					
3555	Columbia Falls (near)	Apr-Sept	1920	95		2027
		Apr-July	1750	95		1844
		Apr-June	1490	95		1565
	MIDDLE FORK FLATHEAD RIVER					
3585	West Glacier (near)	Apr-Sept	1724	89	2208	1923
		Apr-July	1590	89	2002	1785
		Apr-June	1350	89	1696	1521
	SOUTH FORK FLATHEAD RIVER					
3625	Columbia Falls (near)(7)	Apr-Sept	2035	86	2817	2381
		Apr-July	1940	86	2577	2262
		Apr-June	1710	86	2256	1988
	FLATHEAD RIVER					
3630	Columbia Falls (at)(7)	Apr-Sept	5830	90	7472	6497
		Apr-July	5400	90	6798	6028
		Apr-June	4650	90	5846	5185
	SWAN RIVER					
3700	Big Fork (near)	Apr-Sept	600	86		694
		Apr-July	530	86		614
		Apr-June	432	86		503
	FLATHEAD RIVER					
3720	Polson (near)(8)	Apr-Sept	6900	89	9216	7778
		Apr-July	6420	89	8308	7229
		Apr-June	5500	89	7096	6188
	CLARK FORK RIVER					
3890	Plains (near)(8)	Apr-Sept	10750	84	15780	12793
		Apr-July	9850	84	14069	11736
		Apr-June	8450	84	12056	10077
	THOMPSON RIVER					
3895	Thompson Falls (near)	Apr-Sept	250	83	312	302
		Apr-July	225	83	279	273
	PROSPECT CREEK					
3907	Thompson Falls (at)	Apr-Sept	132	80	160	165
		Apr-July	124	80	150	155
	CLARK FORK RIVER					
3920	Whitehorse Rapids (at)(9)	Apr-Sept	12130	84	17390	14398
		Apr-July	11060	84	15496	13187
		Apr-June	9500	84	13320	11318

(7) Adjusted for storage in Hungry Horse Reservoir.
(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.
(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1956

(1000 ACRE FEET)

No.	Site and Forecast Point	Forecast Period	Forecast This Year	Forecast Average	Measured Flow Last Year*	Measured Flow Average
	CLARK FORK RIVER					
3530	Missoula (below)	Apr-Sept	2400	75	4500	3701
		Apr-July	2250	73	3965	3084
		Apr-June	1935	73	3403	2670
	CLARK FORK RIVER					
3545	St. Regis (at)	Apr-Sept	3500	75	6007	4412
		Apr-July	3180	75	5329	4247
		Apr-June	2750	75	4611	3971
	NORTH FORK FLATHEAD RIVER					
3555	Columbia Falls (near)	Apr-Sept	1920	95		2077
		Apr-July	1730	95		1844
		Apr-June	1490	95		1595
	MIDDLE FORK FLATHEAD RIVER					
3585	West Glacier (near)	Apr-Sept	1724	89	2208	1923
		Apr-July	1490	89	2002	1785
		Apr-June	1350	89	1696	1521
	SOUTH FORK FLATHEAD RIVER					
3625	Columbia Falls (near)(7)	Apr-Sept	2035	56	3817	2381
		Apr-July	1940	56	3477	2282
		Apr-June	1710	56	2956	1968
	FLATHEAD RIVER					
3630	Columbia Falls (at)(7)	Apr-Sept	5830	90	7472	6427
		Apr-July	5400	90	6798	6028
		Apr-June	4650	90	5806	5187
	SWAN RIVER					
3700	Big Fork (near)	Apr-Sept	600	86		691
		Apr-July	530	86		616
		Apr-June	430	86		503
	FLATHEAD RIVER					
3720	Polson (near)(8)	Apr-Sept	6900	89	9316	7778
		Apr-July	6420	89	8408	7269
		Apr-June	5900	89	7079	6188
	CLARK FORK RIVER					
3890	Plains (near)(8)	Apr-Sept	10970	84	15980	12792
		Apr-July	9850	84	14069	11736
		Apr-June	8430	84	12065	10077
	THOMPSON RIVER					
3895	Thompson Falls (near)	Apr-Sept	250	83	312	302
		Apr-July	225	83	309	273
	THOMPSON RIVER					
3907	Thompson Falls (at)	Apr-Sept	142	80	160	165
		Apr-July	124	80	150	135
	CLARK FORK RIVER					
3920	Whitehorse, Idaho (at)(9)	Apr-Sept	12130	84	19990	14318
		Apr-July	11400	84	18495	13287
		Apr-June	9500	84	15320	11318

(7) Adjusted for storage in Hungry Horse Reservoir.
(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.
(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Reservoirs.

* Provisional data subject to revision as data becomes available.

NOTE: All average data is 1928-1948 (21 year period).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	MISSOURI RIVER BASIN					
	RED ROCK RIVER					
0110	Kennedy Ranch (at)	Apr-Sept	64.0	89	96.6	71.7
		Apr-July	59.0	89	84.4	66.2
	RED ROCK RIVER					
0125	Monida (near)(11)	Apr-Sept	70.0	89	136	78.4
		Apr-July	65.8	89	125	73.7
	BIG HOLE RIVER					
0255	Melrose (near)	Apr-Sept	570	79	1166	718
		Apr-July	528	79	1054	669
	BOULDER RIVER					
0330	Boulder (near)	Apr-Sept	58.0	76	139	76.3
		Apr-July	55.5	76	128	73.0
	JEFFERSON RIVER					
0345	Sappington (at)(12)	Apr-Sept	745	76	1729	974
		Apr-July	665	76	1489	875
	MADISON RIVER					
0375	West Yellowstone (near)	Apr-Sept	190	91	272	208
		Apr-July	143	91	205	157
	MADISON RIVER					
0385	Grayling (near)(13)	Apr-Sept	380	91	577	420
		Apr-July	299	91	456	330
	MADISON RIVER					
0410	McAllister (near)(14)	Apr-Sept	615	86	1010	718
		Apr-July	493	86	813	576
	GALLATIN RIVER					
0435	Gateway (near)	Apr-Sept	358	80	649	447
		Apr-July	305	80	553	381
	BRIDGER CREEK					
0485	Bozeman (near)	Apr-Sept	15.0	75	31.3	19.9
		Apr-July	14.1	75	28.9	18.7
	HYALITE CREEK					
0500	Bozeman (near)(15)	Apr-Sept	28.5	83	53.2	35.6
		Apr-July	25.6	83	45.7	30.8
	GALLATIN RIVER					
0525	Logan (at)	Apr-Sept	325	70	747	467
		Apr-July	276	70	627	396

(11) Adjusted for storage in Lima Reservoir.
(12) Adjusted for storage in Clark Canyon Reservoir.
(13) Adjusted for storage in Hebgen Lake.
(14) Adjusted for storage in Hebgen and Ennis Lakes.
(15) Adjusted for storage in Middle Creek Reservoir.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF MARCH 1, 1966

No.	River and forecast point	Forecast period	Chance that forecast will be exceeded		Median	Average
			90 percent	50 percent		
	MISSOURI RIVER BASIN					
	RED ROCK RIVER					
0110	Kernsey Reach (ac)	Apr-Sept	84.0	99	96.6	79.7
		Apr-July	74.0	89	84.4	66.2
	RED ROCK RIVER					
0125	Monida (near)(12)	Apr-Sept	78.0	89	136	76.4
		Apr-July	69.5	79	125	73.7
	BIG HOLE RIVER					
0255	Melrose (near)	Apr-Sept	270	[illegible]	1144	714
		Apr-July	258	78	1024	658
	BOULDER RIVER					
0330	Butte (near)	Apr-Sept	59.6	96	139	73.3
		Apr-July	54.3	79	124	72.0
	JEFFERSON RIVER					
0345	Sheridan (ac)(12)	Apr-Sept	745	76	1,159	972
		Apr-July	645	76	1,109	877
	MADISON RIVER					
0375	West Yellowstone (near)	Apr-Sept	170	91	272	204
		Apr-July	143	91	215	157
	MADISON RIVER					
0385	Greycliff (near)(13)	Apr-Sept	370	90	577	404
		Apr-July	290	74	456	330
	MADISON RIVER					
0410	Ennis-Lake (near)(14)	Apr-Sept	[illegible]	86	1010	724
		Apr-July	103	84	818	570
	GALLATIN RIVER					
0435	Gateway (near)	Apr-Sept	338	80	[illegible]	447
		Apr-July	305	80	593	421
	BRIDGER CREEK					
0485	Bozeman (near)	Apr-Sept	15.0	75	21.4	19.7
		Apr-July	14.0	77	20.2	18.7
	BRIDGER CREEK					
0500	Bozeman (near)(15)	Apr-Sept	29.5	85	33.5	34.4
		Apr-July	25.6	81	29.7	31.8
	GALLATIN RIVER					
0525	Logan (ac)	Apr-Sept	324	81	547	402
		Apr-July	274	70	527	396

(11) Adjusted for storage in Lake Hebgen.
(12) Adjusted for storage in Clark Canyon Reservoir.
(13) Adjusted for storage in Hebgen Lake.
(14) Adjusted for storage in Hebgen and Ennis Lakes.
(15) Adjusted for storage in Middle Creek Reservoir.

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	MISSOURI RIVER					
0545	Toston (at)(16)	Apr-Sept	1635	76	3413	2147
		Apr-July	1410	76	2892	1861
	PRICKLY PEAR CREEK					
0615	Clancy (near)	Apr-Sept	16.5	75		22.0
		Apr-July	14.4	75		19.2
	SHEEP CREEK					
0770	White Sul. Spgs. (near)	Apr-Sept	13.7	83	32.2	16.5
		Apr-July	11.8	83	27.6	14.2
	SUN RIVER					
0786	Gibson Dam (at)(17)	Apr-Sept	532	87	702	610
		Apr-July	487	87	632	559
	MISSOURI RIVER					
0908	Fort Benton (at)(18)	Apr-Sept	2500	75		3319
		Apr-July	2120	75		2825
	TWO MEDICINE CREEK					
0920	Browning (near)(19)	Apr-Sept	226	83		271
		Apr-July	216	83		260
	BADGER CREEK					
0925	Browning (near)	Apr-Sept	120	84		143
		Apr-July	103	84		124
	CUT BANK CREEK					
0990	Cut Bank (at)	Apr-Sept	106	75	148	142
		Apr-July	98	75	133	131
	MARIAS RIVER					
0995	Shelby (near) (20)	Apr-Sept	524	81	751	651
		Apr-July	498	81	706	617
	MISSOURI RIVER					
1095	Virgille (at)(21)	Apr-Sept	3070	74		4116
		Apr-July	2650	74		3557
	JUDITH RIVER					
1100	Utica (near)	Apr-Sept	28.0	84		33.5
		Apr-July	26.0	84		31.1
	MISSOURI RIVER					
1150	Zortman (near)(21)	Apr-Sept	3400	75		4508
		Apr-July	2910	75		3878
	NORTH FORK MUSSELSHELL R.					
1155	Delpine (near)	Apr-Sept	4.6	77	10.0	6.0
		Apr-July	3.8	76	8.3	5.0
	SOUTH FORK MUSSELSHELL R.					
1185	Martinsdale (above)	Apr-Sept	39.0	80	73.6	48.8
		Apr-July	37.2	80	64.6	46.6

(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.
(17) Adjusted for storage in Gibson Reservoir and diversions.
(18) Adjusted for storage in Canyon Ferry Reservoir.
(19) Adjusted for storage in Two Medicine Res. & diversions into Two Medicine Canal.
(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances & Swift Res.
(21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

No.	River and Forecast Point	Forecast Period	Forecast (1000 Acre-Feet)	Average (1000 Acre-Feet)	Percent of Average	Runoff (1000 Acre-Feet) Last Year*	Average
	MISSOURI RIVER						
0545	Toston (at)(16)	Apr-Sept	1605	76	3413		2107
		Apr-July	1410	78	2892		1804
	PRICKLY PEAR CREEK						
0615	Clancy (near)	Apr-Sept	16.5	75			22.0
		Apr-July	14.4	75			19.2
	SHEEP CREEK						
0770	Melville Dam, Sheep (near)	Apr-Sept	13.7	83	32.2		16.4
		Apr-July	11.8	83	27.6		14.2
	SUN RIVER						
0780	Gibson Dam (at)(17)	Apr-Sept	532	87	702		610
		Apr-July	487	87	642		559
	MISSOURI RIVER						
0900	Fort Benton (at)(18)	Apr-Sept	2400	75			3200
		Apr-July	2120	75			2825
	TWO MEDICINE CREEK						
0920	Browning (near)(19)	Apr-Sept	356	85			417
		Apr-July	314	85			370
	BADGER CREEK						
0925	Browning (near)	Apr-Sept	120	81			143
		Apr-July	103	84			122
	DRY BEAR CREEK						
0990	Cut Bank (at)	Apr-Sept	106	85	144		125
		Apr-July	98	77	133		127
	MARIAS RIVER						
0995	Shelby (near)(20)	Apr-Sept	551	81	734		682
		Apr-July	490	81	652		604
	BIRCHBED RIVER						
1095	Vimville (at)(21)	Apr-Sept	3070	74			4135
		Apr-July	2670	74			3597
	TENTH RIVER						
1100	Utica (near)	Apr-Sept	28.0	84			33.4
		Apr-July	26.0	84			30.9
	MISSOURI RIVER						
1150	Sorenson (near)(21)	Apr-Sept	3400	72			4728
		Apr-July	2940	72			3918
	NORTH FORK MUSSELSHELL R.						
1165	Delphing (near)	Apr-Sept	4.4	77	10.0		5.8
		Apr-July	3.8	76	8.3		5.0
	SOUTH FORK MUSSELSHELL R.						
1185	Martinsdale (above)	Apr-Sept	38.0	80	73.6		48.4
		Apr-July	32.0	80	62.0		40.0

(16) Adjusted for storage in Ennis and Fort Peck Lakes and Clark Canyon Reservoir.
(17) Adjusted for storage in Gibson Reservoir and diversions.
(18) Adjusted for storage in Canyon Ferry Reservoir.
(19) Adjusted for storage in Two Medicine Res. & diversions into Two Medicine Canal.
(20) Adjusted for storage in Tiber Reservoir, Fort Shaw, Lake Frances & Smith Res.
(21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.

*Preceding year, with corrections as of April, Monthly Supply.

NOTE: All streamflow data are in acre-feet (at 1224 feet).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	MISSOURI RIVER					
1320	Ft. Peck Dam (below)(22)	Apr-Sept	3160	72	7433	4422
		Apr-July	2800	72	6483	3894
	MILK RIVER					
1350	Eastern Crossing (at)	Apr-Sept	216	86	332	250
	MISSOURI RIVER					
1770	Wolf Point (near)(22)	Apr-Sept	3400	70	8333	4879
		Apr-July	3020	70	7356	4317
	MISSOURI RIVER					
3300	Williston, N.D. (nr)(29)	Apr-Sept	7100	64		11059
		Apr-July	6300	64		9828
	SASKATCHEWAN RIVER BASIN					
	ST. MARY RIVER					
0175	Babb (near)(30)	Apr-Sept	453	92		491
		Apr-July	392	92		

(22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
(29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs.
(30) Adjusted for storage in Lake Sherburne.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF JANUARY 1, 1965

No.	Water Year Commodity Point	Forecast Period	Normal Inflow	Forecast Inflow	Percent Normal	Runoff Year Ending	Average
	MISSOURI RIVER						
1320	Ft. Peck Dam (below)(22)	Apr-Sept	3160	72	7437	4422	
		Apr-July	2800	72	6623	3894	
	YELLOWSTONE RIVER						
1350	Eastern Crossing (at)	Apr-Sept	414	86	332	320	
	MISSOURI RIVER						
1770	Wolf Point (near)(22)	Apr-Sept	3430	70	4893	4979	
		Apr-July	3020	70	7356	4317	
	MISSOURI RIVER						
3300	Williston, N.D. (at)(29)	Apr-Sept	7100	84		11099	
		Apr-July	6300	84		9626	

SASKATCHEWAN RIVER BASIN

	ST. MARY RIVER						
0175	Bow (near)(30)	Apr-Sept	493	90		491	
		Apr-July	392	72			

(22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
(29) Adjusted for storage in Gunpowder Ferry, Tiber, Fort Peck, Buffalo Rock, Bighorn and Yellowtail Reservoirs.
(30) Adjusted for storage in Lake Sherburne.

Provisional data remaining to be reviewed.

NOTE: All averages based on 1948-1963 in year order.

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1966

(1000 Acre Feet)

NO.	RIVER AND FORECAST POINT	FORECAST PERIOD	FORECAST THIS YEAR	PERCENT AVERAGE	MEASURED FLOW LAST YEAR*	MEASURED FLOW AVERAGE
	YELLOWSTONE RIVER BASIN					
	YELLOWSTONE RIVER					
1915	Corwin Springs (at)	Apr-Sept	1630	87	2565	1877
		Apr-July	1370	87	2090	1572
	YELLOWSTONE RIVER					
1925	Livingston (near)	Apr-Sept	1740	82	2982	2127
		Apr-July	1450	82	2442	1770
	SHIELDS RIVER					
1935	Clyde Park (at)	Apr-Sept	84.0	85	162	99.0
		Apr-July	78.0	85	145	92.2
	BOULDER RIVER					
2000	Big Timber (at)	Apr-Sept	255	74		343
		Apr-July	238	74		321
	STILLWATER RIVER					
2050	Absarokee (near)(25)	Apr-Sept	420	76		552
		Apr-July	354	76		465
	CLARKS FORK RIVER					
2075	Chance (at)	Apr-Sept	500	86	763	583
		Apr-July	452	86	668	528
	CLARKS FORK RIVER					
2085	Edgar (at)	Apr-Sept	521	86	809	609
		Apr-July	460	86	683	538
	ROCK CREEK					
2095	Red Lodge (near)	Apr-Sept	78.0	75	140	103
		Apr-July	59.5	75	107	79.6
	YELLOWSTONE RIVER					
2145	Billings (at)	Apr-Sept	2980	76	5544	3913
		Apr-July	2560	76	4555	3362
	BIG HORN RIVER					
2870	St. Xavier (near)(26)	Apr-Sept	870	52		1677
		Apr-July	840	53		1568
	YELLOWSTONE RIVER					
3090	Miles City (at)(27)	Apr-Sept	3700	64	9053	5778
		Apr-July	3250	64		5080
	YELLOWSTONE RIVER					
3295	Sidney (near)(27)	Apr-Sept	3450	59		5850
		Apr-July	3100	59		5230

(25) Adjusted for storage in Mystic Lake.
(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.
(27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.

*PROVISIONAL DATA FURNISHED BY U.S. GEOLOGICAL SURVEY

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD).

WATER SUPPLY FORECASTS

AS OF APRIL 1, 1956

(Acre feet)

No.	River and reservoir point	Period	Inflow	Forecast Thru year	Forecast over-all	Reservoir storage Last year*	Average
	YELLOWSTONE-RIVER BASIN						
	YELLOWSTONE RIVER						
1915	Corwin Springs (est)	Apr-Sept	1630	87	2564	1877	
		Apr-July	1370	87	2090	1572	
	YELLOWSTONE RIVER						
1925	Livingston (near)	Apr-Sept	1740	82	2082	2127	
		Apr-July	1530	82	2412	1770	
	SHIELDS RIVER						
1935	Clyde Park (est)	Apr-Sept	84.0	85	102	99.0	
		Apr-July	78.0	85	145	92.2	
	BOULDER RIVER						
2000	Big Timber (est)	Apr-Sept	334	74		341	
		Apr-July	238	74		301	
	STILLWATER RIVER						
2050	Absarokee (near)(25)	Apr-Sept	420	70		522	
		Apr-July	334	70		405	
	CLARKS FORK RIVER						
2075	Clarks (est)	Apr-Sept	300	86	763	371	
		Apr-July	232	86	888	324	
	CLARKS FORK RIVER						
2085	Edgar (est)	Apr-Sept	321	85	809	399	
		Apr-July	270	85	893	339	
	ROCK CREEK						
2095	Red Lodge (near)	Apr-Sept	74.0	75	120	71.3	
		Apr-July	59.5	75	147	75.6	
	YELLOWSTONE RIVER						
2145	Billings (est)	Apr-Sept	2080	76	3344	2412	
		Apr-July	2500	76	4355	1955	
	BIG HORN RIVER						
2270	St. Xavier (near)(26)	Apr-Sept	870	72		1077	
		Apr-July	840	72		1324	
	YELLOWSTONE RIVER						
3090	Miles City (est)(27)	Apr-Sept	3700	64	9053	5095	
		Apr-July	3250	64		5080	
	YELLOWSTONE RIVER						
3295	Sidney (near)(27)	Apr-Sept	3450	57		5843	
		Apr-July	3100	57		5290	

(25) Adjusted for storage in Yellowstone Lake.
(26) Adjusted for storage in Buffalo Bill, Heart, Bull Lake and Yellowtail Reservoirs.
(27) Adjusted for storage in Buffalo Bill, Heart and Yellowtail Reservoirs.

*Provisional data subsequent to W.S. forecasts issued.

NOTE: All forecasts based on 1956-1958 (10 year average).

SNOW SURVEY DATA

AS OF APRIL 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT	
						LAST YEAR	AVERAGE
COLUMBIA RIVER BASIN							
KOOTENAI RIVER							
15B11	Baree Creek	5500	3/31	102	45.0	48.1	50.5
15B16	Baree Midway	4600	3/31	86	35.0	-	-
15B15	Baree Trail	3800	3/31	28	9.6	10.6	-
14A04	Brush Creek	5000	3/29	38	12.8	13.9	14.3*
BC 10	Fernie	3500	3/30	25	8.7	13.1	9.5
BC 12A	Field	4200	3/31	16	4.6	8.3	5.4
BC 11	Glacier	4100	3/28	76	30.4	25.8	27.6
14A11	Graves Creek	4300	3/30	43	17.4	21.6	-
BC 43	Gray Creek	5100	3/28	58	20.3	19.9	19.7
BC 33	Kicking Horse	5400	3/30	43	13.6	15.3	14.8
BC 20B	Kimberley	3800	3/30	21	6.9	10.6	7.7
BC 32	Marble Canyon	5000	3/31	43	13.1	14.2	13.8
BC 10B	Morrissey Ridge	6100				35.5	-
BC 10A	New Fernie	4100	3/30	42	16.1	20.1	15.4*
15A01	Red Mountain	6000	3/31	51	20.0	22.0	21.4
BC 8A	Sinclair Pass	4500	4/1	21	5.3	4.6	5.4
BC 20A	Sullivan Mine	5100	3/31	38	13.7	15.6	15.6
BC 41	Upper Elk River	4400	3/28	18	6.5	9.7	8.2
14A07	Weasel Divide	5450	3/30	74	31.2	40.0	34.1
FLATHEAD RIVER							
14B03	Bassoo Peak	5150	3/28	36	13.2	12.6	13.4*
13A11	Beaver Lake	5900	3/28	57	21.6	30.9	-
13B03	Big Creek	6750	3/31	86	37.0	51.6	46.4
13A17	Camp Misery	6400	3/29	100	40.6	61.0	43.0*
13A02	Desert Mountain	5600	3/28	40	14.8	21.8	16.9
13B04	Fatty Creek	5500	3/31	51	20.3	25.6	21.7*
14A09	Griffin Creek Divide	5150	3/30	30	9.9	13.2	14.3*
13B12	Gunsight Lake	6300	3/28	91	38.9	50.9	-
14A03	Hell Roaring Divide	5770	3/30	68	29.2	39.5	32.3
13B13	Holbrook	4530	3/28	28	10.6	14.5	10.4*
14A06	Kishenehn	3890	3/28	23	7.6	12.0	10.4
14A05	Logan Creek	4300	3/29	23	6.8	9.5	9.5
13A05	Marias Pass	5250	3/29	46	18.3	26.8	20.1
13A16	Mineral Creek	4000	4/3	45	18.1	27.4	22.9
13B07	North Fork Jocko	6330	4/1	84	36.6	55.0	46.7
13B02	Spotted Bear Mountain	7000	3/29	37	13.4	19.9	15.5
13B01	Trinkus Lake	6100	3/29	91	39.4	54.2	44.2*
13B11	Twin Creeks	3580	3/29	31	12.8	15.9	12.1*
13B05	Upper Holland Lake	7000	3/29	76	31.0	45.0	36.3*

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

STATE COUNTY			SURVEY DATA			PRIOR SURVEY	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW SURVEY COURSE	WATER CONTENT	WATER CONTENT LAST YEAR	% AVERAGE
	COLUMBIA RIVER BASIN						
	ROCKY RIVER						
1S21	Snow Creek	4700	3/31	102	45.0	49.1	50.5
1S10	Burns Mikey	4600	3/31	85	35.0	-	-
1S11	Burns Trail	3800	3/31	28	9.6	10.6	-
1A01	Burns Creek	3000	3/29	38	12.8	13.9	94.3*
BC 10	Fortis	3700	3/30	25	8.7	13.1	7.5
BC 12A	Kiaid	4200	3/31	16	4.6	8.3	5.4
BC 11	Olacio	4200	3/28	76	30.4	25.8	57.6
1A11	Cowan Creek	4300	3/30	43	17.4	21.6	-
BC 4S	Grey Creek	3100	3/28	58	20.3	19.9	19.7
BC 3S	Kicking Horse	5100	3/30	49	13.6	15.3	12.8
BC 20B	Kinbasket	3800	3/30	21	6.9	10.6	7.7
BC 3C	Mertle Canyon	5000	3/31	43	13.1	14.2	13.8
BC 10S	Northstar Ridge	6100				36.6	-
BC 10A	Sew Creek	4100	3/30	44	16.1	20.1	15.4*
1S40I	Red Mountain	6500	3/31	31	20.0	22.0	21.4
BC 8A	Elmolair Pass	4500	4/1	22	5.3	4.6	5.4
BC 20A	Spillimon Mine	5100	3/31	38	13.7	15.6	16.6
BC 4I	Upper Kik River	4100	3/28	18	6.5	9.7	8.2
1A40I	Wenzel Divide	5450	3/30	74	31.2	40.9	34.1
	FLATHEAD RIVER						
1A80I	Bacoon Peak	5150	3/24	36	13.2	12.6	13.4*
1A41I	Beaver Lake	5900	3/28	57	21.6	30.9	-
1B03	Big Creek	6750	3/31	85	37.0	51.6	46.4
1A41I	Cam Bishop	6100	3/29	100	40.6	61.0	43.0*
1A02	Desert Mountain	5400	3/28	40	14.8	21.8	16.9
1B04	Patty Creek	5500	3/31	41	10.3	25.6	21.7*
1A40S	Griffin Creek Divide	5150	3/30	30	9.9	13.2	14.9
1A01I	Quadgate Lake	6100	3/24	91	38.9	50.9	-
1A40I	Noll Meeting Divide	5720	3/30	68	29.2	39.5	32.3
1B01I	Nelson	4250	3/28	24	10.6	14.5	10.4*
1A40S	Kishenehn	3900	3/28	23	7.6	12.0	10.4
1A10S	Logan Creek	4300	3/29	23	6.8	7.5	9.5
1A40S	Marias Pass	5300	3/29	65	18.3	26.8	20.1
1A41S	Mineral Creek	4000	4/3	43	18.1	27.4	22.9
1B07I	North Fork Jocko	5130	4/1	84	36.6	55.0	46.7
1A80I	Spotted Bear Mountain	7000	3/29	37	13.4	19.9	15.5
1B02I	Trickum Lake	6100	3/30	91	39.4	54.2	44.2*
1A21I	Twin Creeks	5980	3/29	31	12.8	15.9	12.1*
1B05I	Upper Holland Lake	7050	3/29	76	31.0	45.0	36.9*

NOTE: ALL AVERAGES BASED ON 1955-1965 (10 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
CLARK FORK RIVER							
13C13	Black Pine	7100	3/31	31	10.5	19.4	14.6*
13C13	Black Pine Pillow	7100	3/31	SP	10.9	-	-
12B10	Copper Creek	5700	3/28	37	13.2	18.8	-
12B11	Cotter Mine	6250	3/28	44	15.5	22.6	-
13B10	Coyote Hill	4200	4/1	18	5.9	13.8	11.0
13C09	El Dorado Mine	7800	3/29	46	15.4	30.2	22.6*
13C11	Fred Burr Pass	8000	4/1	50	18.2	36.2	29.0*
13C10	Gold Creek Lake	7200	3/29	37	12.4	22.3	17.0*
14C10	Heart Lake Trail	4800	3/31	56	23.4	24.9	-
15C01	Hoodoo Creek	5900	3/31	104	42.6	55.6	53.4
13C04	Intergaard	6450	4/1	19	5.6	10.6	8.5*
15B02	Lookout	5250	3/31	87	34.3	41.0	40.5
13C21	Lubrecht Forest No. 3	5450	4/3	17	5.0	10.2	8.2*
13C22	Lubrecht Forest No. 4	4650	4/3	3	0.8	4.6	3.5*
13C08	Lubrecht Forest No. 6	4040	4/3	2	0.6	6.5	3.5*
13C12	Red Lion	7100	4/1	34	11.4	24.1	17.5*
13C03	Skalkaho Summit	7260	3/31	56	20.4	35.7	27.4
13C02	Slide Rock Mountain	7100	3/30	38	13.2	20.8	16.0
13C05	Southern Cross	6500	4/1	14	4.8	9.2	7.0*
13C18	Spring Gulch	6000	4/2	24	8.7	17.2	12.5*
13C07	Storm Lake	7780	4/1	31	9.8	20.0	15.5
13C06	Stuart Mill	6500	4/1	15	4.7	8.2	7.5*
13C01	Stuart Mountain	7400	4/3	69	28.0	37.4	32.6
14B01	TV Mountain	6800	3/29	48	17.0	23.2	18.7*
BITTERROOT RIVER							
13C16	Ambrose	6480	3/29	38	12.8	17.6	14.3*
13D01	East Fork R. S.	5400	3/28	15	5.4	8.4	7.7
13D02	Gibbons Pass	7100	3/31	43	15.4	30.5	25.0
14D03	Kit Carson	5020	3/28	19	6.6	12.6	9.0
14C05	Lolo Pass	5230	3/28	68	27.5	37.9	36.4*
14C07	Lost Horse	5940	4/1	58	22.8	38.4	35.6*
13D16	Moose Creek	6200	3/28	32	10.4	24.6	17.1
14D02	Nez Perce Camp	5680	3/28	33	10.5	20.3	15.8
14D01	Nez Perce Pass	6570	3/28	37	13.1	23.3	18.3
13D22	Saddle Mountain	7940	3/28	53	18.4	32.6	-
14C04	Savage Pass	6600	3/29	65	25.9	32.1	30.5*
14C08	Twin Lakes	6510	4/1	76	30.8	54.6	46.7*

SP - Snow Pillow Observation - Water Content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

SNOW COURSE			HISTORY DATA			WATER CONTENT	
No.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
CLARK FORK RIVER							
13C13	Black Pine	7100	3/31	31	19.7	19.4	14.6*
13C19	Black Pine Pillow	7100	3/31	SP	10.0	-	-
12B10	Copper Creek	5700	3/28	37	13.2	18.8	-
12B11	Cutter Mtn	6250	3/28	44	15.5	22.5	-
13B10	Copper Hill	4200	4/1	18	5.9	13.8	11.0
13C09	St Donna Mine	7800	3/29	46	15.4	20.2	22.6*
13C11	Fred Burr Pass	8000	4/1	50	18.2	30.2	24.0*
13C10	Gold Creek Lake	7200	3/29	37	12.4	22.3	17.0*
14C10	Hart Lake Trail	4500	3/22	36	23.4	24.9	-
15C07	Moodoo Creek	5900	3/30	104	42.6	54.6	53.4
13C04	Interpaid	8400	4/1	19	5.6	10.6	8.4*
15B02	Lookout	5250	3/31	87	34.3	41.0	40.4
13C21	Tamarack Forest No. 3	5450	4/3	17	5.0	10.2	8.2*
13C22	Tamarack Forest No. 4	4650	4/3	3	0.8	4.6	3.5*
13C08	Tamarack Forest No. 6	4000	4/1	2	0.6	2.5	3.5*
13C12	Red Lion	7100	4/1	34	11.4	24.1	17.5*
13C03	Stanley Summit	7500	3/31	50	20.4	34.7	27.4
13C02	White Rock Mountain	7100	3/30	38	13.2	20.5	15.0
13C05	Southern Cross	6500	4/1	14	4.8	9.2	7.0*
13C18	Spring Point	6000	4/2	24	8.7	17.2	12.4*
13C07	Storm Lake	7750	4/1	31	9.8	20.0	19.5
13C06	Stuart Mill	6700	4/1	12	4.7	8.2	7.5*
13C01	Stuart Mountain	7400	4/3	69	28.0	37.[illegible]	32.5
14B01	TV Mountain	6800	3/29	48	17.0	25.2	18.7*
BITTERROOT RIVER							
13C16	Andrews	6400	3/29	38	12.8	17.6	14.5*
13D01	East Fork R. S.	5200	3/28	15	3.4	8.4	7.7
13D02	Gibbons Pass	7100	3/31	43	15.4	30.5	25.0
14D03	Elk Garden	5300	3/28	10	4.6	12.6	9.7
14C05	Lolo Pass	5250	-	[illegible]	27.5	37.5	34.4*
14C07	Lost Horse	5900	4/1	98	22.8	34.4	32.8*
13D16	Moose Creek	6200	3/28	32	10.4	22.6	17.1
14D02	Nez Perce Camp	5680	3/28	33	10.5	20.3	15.8
14D01	Nez Perce Pass	6270	3/28	37	13.1	23.3	18.3
13D22	Saddle Mountain	7840	3/28	57	18.4	32.6	-
14C04	Stevens Pass	5600	3/29	65	25.9	32.2	32.3*
14C08	Twin Lakes	6510	4/1	76	30.5	32.4	40.7*

SP - Snow Pillow Conservation - Water Content only.

NOTE: ALL AVERAGES DATED ON 1940-1966 (26 YEAR PERIOD). *AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
	MISSOURI RIVER BASIN						
BEAVERHEAD RIVER							
13D10	Bloody Dick	7600	3/29	25	7.2	16.6	11.7
11E11	Blue Ledge Mine	6700	3/29	36	11.7	18.0	16.7
12E03	Camp Creek	6800	3/31	21	6.7	12.7	10.4
12D04	Carter Creek	7400	3/30	17	4.2	7.4	-
13E22	Dad Creek Lake	8400	3/28	37	10.3	20.4	-
13D15	Elk Horn Springs	7800	3/31	24	6.6	15.2	10.4
13D09	Gold Stone	8100	3/29	33	10.1	21.2	15.3
11E12	Kilgore	6200	3/29	23	6.8	10.9	10.0
11E04	Lakeview Canyon	6930	3/30	37	19.8	19.4	10.8
11E03	Lakeview Ridge	7400	3/30	31	8.4	17.0	9.7
13E01	Lemhi Pass	7480	3/28	20	5.6	15.3	9.2
13E02	Trail Creek	7090	3/28	22	5.6	14.2	8.8
12E01	White Pine Ridge	8850	4/1	9	2.3	6.7	5.9
RUBY RIVER							
11D08	Clover Meadow	8600	4/1	42	12.9	22.4	-
12E07	Divide	7900	4/1	28	7.6	15.7	-
12E06	Notch	8500	4/1	42	12.7	17.7	-
BIG HOLE RIVER							
13D20	Abundance Lake	8800	4/1	43	14.1	26.7	-
13D19	Darkhorse Lake	8600	4/2	49	18.6	36.4	-
13D21	Foolhen	8280	4/1	36	10.9	23.1	-
13D08	Jahnke Creek	7340	3/29	19	5.2	13.2	11.2
JEFFERSON RIVER							
12C07	Berry Meadow	7300	4/1	18	5.8	9.5	7.8*
12C09	Copper Mountain	7700	3/29	32	9.0	New Course	
12C06	Picnic Grounds	6500	4/1	10	2.4	5.2	4.8*
12D01	Pipestone Pass	7200	3/30	17	4.6	6.2	6.2
MADISON RIVER							
11E09	Big Springs	6500	3/30	44	16.8	26.3	22.6
11D07	Call Road	8050	4/1	30	8.4	13.9	-
11D12	Four Mile	6900	3/31	19	5.8	11.2	-
11E25	Freezeout Lake	7200	3/23	31	7.1	14.6	-
11E26	Freezeout Mountain	8250	3/23	52	14.2	24.8	-
11E05	Hebgen Dam	6550	3/30	24	7.3	15.2	12.2
11E10	Island Park	6315	3/30	34	11.5	20.8	17.6
11D05	Jack Creek	7500	3/30	12	4.0	7.0	6.9*

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

STATION DATA			CURRENT DATA			FINAL RECORD	
No.	Name	Elevation	Last Of Month	Snow Water	Water Content	Water Content	
						Last Year	Average
BEAVERHEAD RIVER							
13010	Bloody Dick	7000	2/20	25	7.2	16.6	13.7
13011	Blue Lodge Nine	6700	3/29	36	11.7	22.0	16.7
13009	Camp Creek	6900	4/1	21	6.7	12.7	10.4
13004	Carter Creek	7100	3/30	19	4.2	7.4	-
13022	Red Creek Lake	8100	3/28	37	10.3	20.1	-
13015	Big Horn Springs	7800	3/31	24	6.6	15.2	10.4
13009	Gold Stone	8100	3/29	39	10.1	21.2	15.9
13012	Kilgore	6200	3/28	23	6.8	10.9	10.0
13004	Lakeview Canyon	6925	3/30	37	10.8	19.1	10.8
13009	Lakeview Ridge	7400	3/30	21	8.1	17.0	9.7
13001	Tendoy Dam	7480	4/23	20	5.1	15.4	9.2
13002	Trail Creek	7000	3/28	22	5.6	14.2	8.4
13001	White Pine Ridge	8500	4/1	9	2.3	6.7	5.9
RUBY RIVER							
11006	Clover Meadow	8000	4/1	42	12.9	22.4	-
11007	Stride	7900	4/1	25	7.6	15.7	-
11006	Storm	8500	4/1	42	12.7	17.7	-
BIG HOLE RIVER							
13020	Albuquerque Lake	8700	4/1	43	14.1	26.7	-
13019	Garfinkers Lake	8000	4/2	49	14.6	36.1	-
13021	Fossils	8280	4/1	35	10.9	23.1	-
13008	Jennie Creek	7340	3/30	19	3.4	13.3	11.3
JEFFERSON RIVER							
12007	Berry Meadow	7300	4/1	18	5.1	9.5	7.4*
12009	Copper Mountain	7200	3/29	32	5.0	New Gauges	
12008	Pleasant Grassage	6500	4/1	16	2.4	5.2	4.8*
12001	Pipestone Pass	9100	3/30	17	4.5	5.2	6.2
MADISON RIVER							
11009	Big Springs	6900	3/30	44	16.4	26.3	22.5
11007	Cliff Creek	8500	4/1	30	8.1	13.9	-
11012	Four Mile	6900	3/31	19	4.2	11.2	-
11010	Freeman Lake	7200	3/23	21	7.1	14.6	-
11006	Freeman Mountain	8550	3/23	32	14.3	24.8	-
11005	Hebgen Dam	6550	3/30	24	7.3	7.2	12.2
11010	Indian Park	6415	3/30	34	11.5	20.8	17.6
11005	Duck Creek	7500	3/30	11	4.6	7.0	6.9*

NOTE: ALL MEDIANS BASED ON 1948-1965 (IN MIXED PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
						WATER CONTENT	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE
MADISON RIVER (continued)							
11E22	Lake Creek	6100	3/23	26	6.2	10.3	-
11D11	Lower Twin	7900	3/31	46	16.2	28.8	-
11E23	Meridian Creek	7000	3/23	32	6.5	15.2	-
10E02	Norris Basin	7500	3/31	25	6.9	14.6	9.9*
11D03	North Meadow	7500	3/31	22	6.2	13.7	9.4*
11E21	Potomageton Park	7150	3/30	33	11.4	18.5	-
11E20	Sentinel Creek	8300	3/30	53	18.2	31.7	-
11E24	Tepee Creek	8000	3/23	42	10.0	22.7	-
11E27	Upper West Fork	8750	3/22	52	14.4	New Course	
11E08	Valley View	6500	3/30	39	13.0	25.9	16.4
11E07	West Yellowstone	6700	3/30	26	7.9	14.8	11.7
GALLATIN RIVER							
10D14	Arch Falls	7350	4/4	33	9.3	16.0	12.1*
11D09	Bear Basin	8150	4/2	43	14.3	25.8	20.4*
10D15	Bridger Bowl Pillow	7250	3/30	SP	21.8	29.7	-
10D04	Devil's Slide	8100	4/4	55	16.4	29.8	22.3
10D03	Hood Meadow	6600	4/4	22	6.2	13.5	10.0
10D13	Lick Creek Pillow	6860	4/1	SP	7.0	14.8	-
11D10	Little Park	7400	4/2	36	10.7	19.9	14.8*
10D01	New World	6700	3/25	34	9.0	13.8	10.8
10D16	Shower Falls Pillow	8100	4/1	SP	20.3	-	-
11E06	Twenty-One Mile	7150	3/29	43	13.9	27.2	18.2
MISSOURI RIVER (Main Stem)							
11C01	Boulder Mountain	7950	3/29	47	14.7	20.8	15.5*
12C05	Chessman Reservoir	6200	3/31	4	1.2	6.1	4.9
10C09	Deadman Creek	6450	3/31	24	7.0	-	-
10C07	Elk Peak	8000	3/30	43	13.7	23.0	15.8*
10C02	Grasshopper	7000	3/30	16	3.5	6.7	5.7
10C01	Kings Hill	7500	3/29	34	10.1	17.0	13.6
9A01	Rocky Boy	5200	3/28	11	3.3	7.1	4.3
12C01	Stemple Pass	6600	3/28	30	8.3	13.8	11.0
12C02	Ten Mile Lower	6600	3/30	13	3.4	10.5	7.2
13C03	Ten Mile Middle	6800	3/30	25	7.0	15.1	11.2
12C04	Ten Mile Upper	8000	3/30	30	9.3	20.6	14.3
SUN-TETON-MARIAS RIVERS							
13A15	Badger Pass	6900	3/28	86	34.2	44.5	-
12B06	Cabin Creek	5200	3/28	20	7.4	12.4	7.0*
12B09	Five-Bull	5700	3/29	20	6.3	10.0	7.1*
12A01	Freight Creek	6000	3/28	43	15.4	24.2	17.0
12B07	Goat Mountain	7000	3/31	29	9.1	16.2	12.3
12B01	West Fork	6000	3/28	32	11.0	24.4	16.9*
12B04	Wrong Creek	5700	3/28	40	15.6	21.8	15.8*
12B03	Wrong Ridge	6800	3/28	51	19.9	29.1	22.2*

SP - Snow Pillow Observation - Water Content only.

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

SNOW COURSE			CURRENT DATA			PREV. STORAGE	
No.	Name	Elevation	Date of Survey	Snow Depth	Water Content	Water Content	Last Year	Average
MADISON RIVER (continued)							
11E22	Lake Creek	6100	3/29	26	6.2	10.3	-
11D11	Lower Twin	7900	3/31	46	16.2	24.5	-
11E29	Martindale Creek	7800	3/29	22	6.5	15.2	-
10E02	Moonlight Basin	7500	3/31	30	6.9	14.6	9.0*
11D03	North Meadow	7900	3/31	22	5.2	13.7	9.4*
11E21	Potosi Pass Park	7250	3/30	33	11.4	18.5	-
11E20	Sawtooth Creek	8300	3/30	53	18.2	31.1	-
11E24	Tepee Creek	8400	3/29	42	10.0	22.7	-
11E27	Upper Twin Park	8700	3/22	52	14.4	New Course	
11E08	Wallace Lake	6500	3/30	39	13.0	22.0	16.4
11E07	West Yellowstone	6700	3/30	26	7.5	14.8	11.7
GALLATIN RIVER							
10D14	Bear Valley	7250	4/4	33	9.3	16.0	12.1*
11D09	Bear Basin	8150	4/2	43	14.3	16.8	20.4*
10D15	Bridger Land Pillow	7950	3/30	52	21.8	29.7	-
10D04	Devil's Slide	8100	4/4	55	16.4	29.8	22.3
10D05	Hood Meadow	5600	4/4	22	6.2	12.5	10.0
10D13	Lick Creek Pillow	6860	4/4	32	7.0	14.8	-
11D10	Little Park	7400	4/2	34	10.7	19.9	14.8*
10D01	New Moran	6700	3/25	34	9.0	13.8	10.8
10D16	Shower Falls Pillow	8100	4/1	32	20.3	-	-
11E06	Twenty-One Mile	7250	3/29	43	13.9	27.2	18.2
MISSOURI RIVER (Upper Basin)							
11C01	Beaverhead Meadows	7250	3/29	47	14.7	20.8	15.5*
12C03	Clemons Reservoir	4700	3/31	4	1.2	6.1	4.7
10C07	Dearborn Canyon	6530	3/31	24	7.0	-	-
10C07	Elk Park	8000	3/30	43	13.7	23.0	15.8*
10C08	Hennessy	7000	3/30	16	3.5	6.7	5.7
10C01	Lions Park	7800	3/29	34	10.1	17.0	13.6
9A01	Moran Fork	5800	3/29	11	3.5	7.1	4.3
12C01	Stanley Basin	6400	3/28	30	8.3	13.8	13.0
12C02	Two Dollar Tower	6400	3/31	13	3.4	10.5	7.2
12C03	Two Mile Middle	6800	3/30	28	7.0	15.1	11.2
12C04	Two Mile Upper	8500	3/30	30	9.3	20.6	14.3
SUN-TETON-MARIAS RIVERS							
12A16	Badger Pass	6050	3/28	84	34.2	44.5	-
12B06	Dupuyer Creek	5700	3/28	20	7.4	12.4	7.0*
12B09	Flat-Nose Park	5900	3/29	20	6.3	10.0	7.1*
12A01	Freeman Lakes	6000	3/28	43	15.4	24.2	17.0
12B07	Gibson Reservoir	7000	3/31	29	9.1	16.2	12.3
12B01	Moss Creek	6800	3/28	32	11.0	24.4	16.4*
12B04	Murray Creek	5700	3/28	40	15.6	21.0	15.8*
12B07	Nyman Bridge	6400	3/28	51	19.9	29.1	22.2*

SP - Snow Pillow (Water Content - Water Contents only).

NOTE: All averages based on complete 10 year series. "Adjusted average.

SNOW SURVEY DATA

AS OF APRIL 1, 1966

(inches)

SNOW COURSE			CURRENT DATA			PAST RECORD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT LAST YEAR	WATER CONTENT AVERAGE
JUDITH RIVER							
9C02	Avalanche	7100	4/1	45	16.3	New Course	
9C01	Crystal Lake	6100	4/1	21	7.2	16.1	12.2
9C03	Rock Creek	5600	4/1	14	5.1	New Course	
10C06	Spur Park	8000	3/31	48	16.4	27.5	19.2*
SASKATCHEWAN (BOW RIVER)							
ALB. 1	Bow River	5100	3/28	30	8.4	11.2	9.2
ALB. 2	North Course	5400	3/28	30	7.6	10.2	9.1
ALB. 5	Lake Louise	5800	3/29	33	10.3	13.3	10.9
ALB. 6	Mirror Lake	6600	3/29	37	10.8	14.9	13.1
ALB. 8	Misc. Lake Louise	5700	3/29	34	8.9	12.7	11.7
ALB. 10	Mount Eisenhower	5000	3/28	21	5.0	5.9	-
ST. MARY RIVER							
13A18	Hudson Bay Divide	5800	3/30	46	15.9	23.4	-
UPPER YELLOWSTONE RIVER							
10C05	Bald Ridge	7500	3/30	31	10.0	16.6	11.7*
9D01	Camp Senia	7890	3/25	26	4.4	9.6	6.3
10E03	Canyon	7750	3/29	41	13.0	24.4	16.3
9D07	Cooke Guard Station	8150	4/1	41	13.3	-	-
10D05	Crevice Mountain	8400	3/30	23	6.2	11.7	9.5
10E06	East Entrance	7000	3/30	23	5.0	10.2	11.3*
9D06	Fisher Creek	9100	4/1	82	33.6	-	-
9D05	Grizzly Peak	8400	3/31	38	12.0	20.6	15.7*
10D06	Independence	8000	3/28	40	13.1	24.3	19.2*
10E04	Lake Camp	7850	3/31	28	6.2	15.0	11.1
9E01	Lodgepole	8200	3/30	27	7.3	12.1	11.8*
10E01	Lupine Creek	7300	3/30	28	7.8	13.6	11.2
10D12	Monument Peak	9000	3/28	56	19.3	34.2	23.0*
10D07	Northeast Entrance	7400	4/1	16	4.6	13.5	9.3
10C03	Porcupine R.S.	6500	3/30	22	6.3	10.4	7.7
10D10	Sacajawea	6550	3/31	33	11.8	18.4	13.0*
10C08	South Fork Shields	8100	3/30	59	21.2	30.5	-
10E05	Sylvan Pass	7100	3/30	36	10.0	16.3	14.9
10E07	Thumb Divide	7900	3/29	59	21.1	32.1	24.2
9D04	Timberline Creek	8850	3/25	47	11.4	21.6	14.1*

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). *ADJUSTED AVERAGE

SNOW SURVEY DATA

AS OF APRIL 1, 1966

SNOW COURSE			COURSE DATA			PAST PERIOD	
NO.	NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH	PRESS CONTENT	WATER CONTENT	LAST YEAR % AVERAGE
LEFTHAND RIVER							
9C02	Avalanche	7100	4/1	45	16.3	Snow Course	
9C01	Crystal Lake	6100	4/1	21	7.2	14.1	12.2
9C03	Rock Creek	5600	4/1	14	4.1	Snow Course	
1C05	Spur Park	8000	3/31	42	14.4	27.5	19.2*
BASSETT-DEMLAR (FOR RIVER)							
AIB. 1	Bow River	5100	3/28	30	8.4	11.2	9.2
AIB. 2	North Course	5400	3/28	20	7.6	10.2	9.1
AIB. 4	Lake Louise	5800	3/29	33	10.3	13.3	10.9
AIB. 6	Mirror Lake	6400	3/29	37	10.8	14.9	13.1
AIB. 8	Mbno. Lake Louise	7700	3/29	34	8.9	12.7	11.7
AIB. 10	Mount Biscobouy	5000	3/28	21	5.0	5.9	-
ST. MARY RIVER							
1J12	Badger Bay Divide	5800	3/30	46	15.9	23.4	-
UPPER YELLOWSTONE RIVER							
1C09	Bull Ridge	7500	3/30	31	10.0	16.6	11.7*
9D01	Camp Creek	7950	3/25	26	4.4	9.6	6.3
1C02	Canyon	7750	3/29	41	13.0	24.4	16.3
9D07	Cooke Ranch Station	8540	4/1	41	13.3	-	-
1D05	Fawler Meadows	8400	3/30	23	6.2	11.7	9.5
1C06	Hayes Entrance	7000	3/30	25	5.0	10.2	11.3*
9D06	Pilgrim Creek	9100	4/1	32	33.6	-	-
9D05	Quinsey Park	8400	3/31	34	12.0	20.6	15.7*
1C04	Indepundence	8000	3/28	40	13.1	24.3	19.2*
1C03	Lake Camp	7450	3/31	28	6.2	15.0	11.1
9C01	Ladgepole	8200	3/30	27	7.3	12.1	11.8*
1C01	Lupine Creek	7200	3/30	28	7.8	13.6	11.2
1D12	Mammoth Park	9000	3/28	36	19.3	34.2	23.0*
1D07	Sunlight Bridge	7400	4/1	16	4.4	13.5	9.3
1D03	Pocahontas R.S.	6500	3/30	22	6.3	10.4	7.7
1D10	Geodjawa	8550	3/31	22	11.8	18.4	13.0*
1D08	South Fork Shields	8100	3/30	29	21.2	30.5	-
1C05	Sylvan Pass	7100	3/30	36	10.0	16.3	14.9
1D07	Tower Bridge	7900	3/29	39	21.1	32.1	24.2
9D04	Timberline Creek	8450	3/25	47	11.4	21.6	14.1*

NOTE: ALL AVERAGES BASED ON 1948-1962 SIX YEAR PERIOD. *ADJUSTED INTERIM

SOIL MOISTURE DATA

AS OF APRIL 1, 1966

(Inches)

SOIL MOISTURE STATION			SOIL PROFILE		CURRENT DATA		PAST RECORD	
NO.	NAME	ELEVATION	DEPTH	FIELD CAPACITY	DATE OF SURVEY	SOIL MOISTURE	LAST YEAR	**AVERAGE
			COLUMBIA RIVER BASIN					
Kootenai								
15B15M	Baree Trail	3800	48	7.5	3/31	7.6	6.2	-
14A10M	Murphy Lake R.S.	3000	48	22.6	4/1	22.2	22.3	-
15A02M	Raven R.S.	3050	48	23.0	4/1	22.2	21.0	-
Flathead								
13A02M	Desert Mountain	5600	54	8.4	3/28	7.4	7.6	7.4
13A05M	Marias Pass	5250	54	6.5	4/3	5.8	5.7	5.4
Clark Fork								
13C13M	Black Pine	7100	48	10.0	3/31	5.9	-	-
13C15M	Georgetown Lake	6450	48	9.0	4/1	3.6	3.2	2.9
13B19M	Seeley Lake R.S.	4030	48	11.9	4/4	12.4	10.0	-
13C03M	Skalkaho Summit	7260	48	10.8	3/31	10.0	8.9	-
Bitterroot								
13D18M	Gibbons Pass	7100	48	7.1	3/28	5.0	5.4	5.6
14C05M	Lolo Pass	5250	48	10.6	4/1	6.2	7.2	-
			MISSOURI RIVER BASIN					
Beaverhead								
11E13M	Lakeview	6700	48	15.3			13.4	10.3
Madison								
10D04M	Red Bluff	4800	40	4.7	4/1	2.3	2.3	2.5
Gallatin								
10D15M	Bridger Bowl	7250	48	15.8	3/31	16.7	-	-
11D02M	College Site	4856	54	14.5	4/1	13.8	10.4	11.2
10D13M	Lick Creek	6860	48	18.8	4/1	14.8	-	-
11E06M	Twenty-One Mile	7150	48	10.0	3/28	3.0	1.6	-
Missouri Main Stem								
10C01M	Kings Hill	7420	48	11.8	3/31	8.8	8.2	-
12C08M	Stemple Pass	6230	48	5.9	3/31	5.2	4.2	-
Yellowstone								
10D11M	Battle Ridge	6020	48	17.6	3/31	14.8	15.4	13.4
10D07M	Northeast Entrance	7350	48	9.4	4/1	7.4	5.8	6.9

**AVERAGE FOR PERIOD OF RECORD

SOIL MOISTURE DATA

AS OF APRIL 1, 1964

(Inches)

Soil moisture station			Soil moisture		Current data		Past six years	
No.	Name	Elevation	Storage capacity	Depth of soil moisture	Soil moisture	Date	Soil moisture	Date
	COLUMBIA RIVER BASIN							
Kootenai								
13B15M	Bonner Trail	2800	4S	7.5	3/31	7.6	6.2	-
13A17M	Murphy Lake R.S.	3000	4S	27.6	4/1	22.2	22.3	-
13A02M	Raven R.S.	3050	4S	23.0	4/1	22.2	21.0	-
Flathead								
12A20M	Desert Mountain	5600	5L	8.4	3/28	7.4	7.6	7.4
12A09M	Martins Park	5250	5L	6.5	4/2	5.8	5.7	3.4
Clark Fork								
12B12M	Black Pine	7100	4S	10.0	3/31	5.9	-	-
12C11M	Georgetown Lake	6450	4S	9.0	4/1	3.5	3.2	2.9
12B17M	Seeley Lake R.S.	4230	4S	13.9	4/4	12.4	10.0	-
12C03M	Superior Ranger	7240	4S	10.8	3/31	10.0	8.0	-
Bitterroot								
12D12M	Gibbons Pass	7100	4S	7.1	3/28	3.0	3.4	3.6
12D05M	Lolo Pass	5250	4S	10.6	4/1	6.2	7.2	-
	MISSOURI RIVER BASIN							
Beaverhead								
11E13M	Dillon	6700	4S	13.1			12.4	10.2
Madison								
11C04M	Red Mutt	4900	4S	4.7	4/1	2.2	2.5	2.5
Gallatin								
10D13M	Bridger Bowl	7250	4S	15.8	3/31	16.7	-	-
11D02M	Gallatin Site	4600	5L	14.3	4/1	13.8	10.4	11.2
10D13M	Lick Creek	6400	4S	18.8	4/1	14.8	-	-
11E02M	Twenty-one Mile	7150	4S	10.0	3/28	3.0	1.6	-
Madison Main Stem								
10C01M	Alder Mill	7400	4S	11.4	3/31	8.8	8.2	-
12C06M	Sheepie Park	6250	4S	9.9	3/31	5.2	4.2	-
Yellowstone								
10D11M	Rattle Snake	8000	4S	17.6	3/31	14.8	13.4	13.4
10D07M	Northeast Entrance	7400	4S	9.4	4/1	7.4	5.8	6.9

*Average for years on record

RESERVOIR STORAGE DATA

AS OF MARCH 31, 1966

(1000 Acre Feet)

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE THIS YEAR	USEABLE STORAGE LAST YEAR	USEABLE STORAGE AVERAGE
COLUMBIA RIVER BASIN					
Flathead	Hungry Horse	3,428.0	2,214.0	1,567.0	2,244.4**
	Flathead Lake	1,791.0	650.4	958.1	690.8
	Camas (Sum of 4)	45.2	31.0	22.0	33.8
	Mission Valley (Sum of 8)	100.3	63.6	37.7	37.2
Clark Fork	Georgetown Lake	31.0	24.0	23.9	21.8
	Noxon Rapids	334.6	189.0	150.4	-
Bitterroot	Como	34.9	16.2	17.2	13.4
	Painted Rocks	31.7	14.5	-	14.1**
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	156.3	85.7	-
	Lima	84.0	47.3	46.3	27.3
Ruby	Ruby	38.8		-	26.1**
Madison	Hebgen Lake	377.5	222.3	224.4	179.1
	Ennis Lake	41.0	39.2	14.4	36.4
Gallatin	Middle Creek	8.0	2.4	4.0	3.9**
Missouri	Canyon Ferry	2,043.0	1,506.0	1,643.0	1,529.0**
	Hauser & Helena	61.9	60.7	57.9	44.6
	Lake Helena	10.4	10.0	9.0	5.6
	Holter Lake	81.9	80.0	15.0	51.7
	Smith River	10.7		8.8	6.5**
	Ackley Lake	5.8		-	3.5
	Durand	7.0		6.8	4.9
	Martinsdale	23.1		7.3	8.7
	Deadman's Basin	72.2		52.7	41.6**
	Fort Peck	19,410.0	16,830.0	15,250.0	10,875.4
Sun	Gibson	105.0	52.6	49.8	60.6
	Willow Creek	32.3	25.2	16.1	21.0
	Pishkun	32.0	18.8	17.1	18.2
Marias	Lower Two Medicine			-	0.0
	Four Horns	19.2	12.0	13.1	10.6
	Swift			-	23.9
	Lake Frances	112.0	93.4	84.7	92.8
	Tiber	1,347.0	724.7	712.9	647.4**
Milk	Fresno	127.2	119.9	83.8	81.5
	Nelson	66.8	47.9	33.9	34.9
	Lake Sherburne	66.1	15.4	18.8	24.4
Yellowstone	Mystic Lake	20.8	6.6	4.8	4.8
	Tongue River	68.0		-	20.7
	Cooney	27.5	22.0	14.8	13.5**
Big Horn	Boysen	700.3	324.6	241.2	184.0
	Buffalo Bill	373.1	262.5	110.9	131.6
	Bull Lake	151.7	95.6	76.9	56.8
	Yellowtail	1,409.0	305.8	-	-

NOTE: ALL AVERAGES BASED ON 1948-1962 (15 YEAR PERIOD). **AVERAGE FOR PERIOD OF RECORD

RESERVOIR STORAGE DATA

AS OF MARCH 31, 1968

(1000 acre feet)

BASIN	RESERVOIR	USEABLE CAPACITY	USEABLE STORAGE: END YEAR	USEABLE STORAGE: LAST YEAR	USEABLE STORAGE: AVERAGE
COLUMBIA RIVER BASIN					
Flathead	Hungry Horse	3,428.0	2,214.0	1,597.0	2,244.4**
	Flathead Lake	1,791.0	650.4	938.1	690.8
	Swan (Sum of 4)	45.2	32.0	22.0	33.8
	Mission Valley (Sum of 8)	100.3	63.6	37.7	37.2
Clark Fork	Georgetown Lake	31.0	24.0	23.9	21.8
	Noxon Rapids	334.6	189.0	150.4	-
Bitterroot	Como	44.9	16.2	17.2	13.4
	Painted Rocks	31.7	14.5	-	14.1**
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	156.3	85.7	-
	Lima	84.0	47.3	46.3	27.3
Sun	Ruby	39.8		-	26.1**
Madison	Hebgen Lake	377.5	222.3	224.4	177.1
	Ennis Lake	41.0	39.2	14.4	36.4
Gallatin	Middle Creek	8.0	2.4	4.0	3.9**
Missouri	Canyon Ferry	2,042.0	1,506.0	1,643.0	1,529.0**
	Hauser & Holter	84.9	60.7	57.9	44.6
	Lake Helena	10.4	10.0	9.0	5.6
	Nelson Lake	81.9	80.0	15.0	51.7
	Smith River	10.7		8.8	6.5**
	Ackley Lake	5.8		-	3.3
	Durand	7.0		6.8	4.9
	Martinsdale	23.1		7.3	5.7
	Deadman's Basin	72.2		52.7	41.6**
	Fort Peck	19,410.0	16,830.0	15,250.0	10,875.4
Sun	Gibson	105.0	52.6	49.8	60.6
	Willow Creek	32.3	25.2	16.1	21.0
	Pishkun	32.0	18.8	17.1	18.2
Marias	Lower Two Medicine			-	0.0
	Four Horns	19.2	12.0	13.1	10.6
	Swift			-	23.9
	Lake Frances	112.0	93.4	84.7	92.8
	Tiber	1,347.0	724.7	712.9	647.4**
Milk	Fresno	127.2	119.9	83.8	81.5
	Nelson	54.8	47.9	32.9	34.5
	Lake Sherburne	66.1	15.4	18.8	22.4
Yellowstone	Yellowtail Lake	32.8	6.6	4.8	4.8
	Tongue River	68.0		-	20.7
	Cooney	22.5	22.0	14.8	13.9**
Big Horn	Boysen	700.3	324.6	241.2	184.0
	Buffalo Bill	372.1	262.5	110.9	131.6
	Bull Lake	151.7	95.6	70.9	56.8
	Yellowtail	1,459.0	305.8	-	-

NOTE: ALL AVERAGES BASED ON 1948-1968 (15 YEAR PERIOD). **AVERAGE FOR PERIOD OF RECORD

Agencies Cooperating in Collecting Data Contained in this Bulletin

U. S. Forest Service
Region 1, Missoula, Montana

U. S. Geological Survey
Helena, Montana

U. S. Army Corps of Engineers
Portland, Oregon
Seattle, Washington
Omaha, Nebraska

U. S. Indian Irrigation Service
St. Ignatius, Montana

U. S. Weather Bureau
Helena, Montana

U. S. Bureau of Sports Fisheries and Wildlife
Red Rock Lakes Refuge
Monida, Montana

U. S. Bureau of Reclamation
Billings, Montana
Boise, Idaho

U. S. Soil Conservation Service
Montana, Wyoming, Idaho

Soil and Water Conservation Districts
Montana Counties

U. S. Bonneville Power Administration
Portland, Oregon

U. S. National Park Service
Yellowstone National Park
Glacier National Park

Montana Power Company
Butte, Montana

State Water Conservation Board
Helena, Montana

North Montana Branch Station
Agricultural Experiment Station
Havre, Montana

Montana State University
Agricultural Experiment Station
Bozeman, Montana

University of Montana
School of Forestry
Missoula, Montana

Johnson Flying Service, Inc.
Missoula, Montana

Water Rights Branch, Dept. of Lands and Forests
Victoria, British Columbia

Department of Northern Affairs and National Resources
Calgary, Alberta

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